英华家电维修资料专用 QQ:505966338

Service
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Service Manual

Horizontal Frequency
30-72 kHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

TPV

AOC EYES VALUE

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Revision List

Revision	Release Date	Change Instruction	TPV model
A00	Dec.-22-2006	Initial release	P774BOTWS6T2K

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Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING

Use of substitute replacement parts, which do not have the same, specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC.
AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.
Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:
DANGER-Invisible laser radiation when open AVOID DIRECT EXPOSURE TO BEAM.
CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.
Take care during handling the LCD module with backlight unit
-Must mount the module using mounting holes arranged in four corners.
-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.

-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
-Make certain that treatment person’s body is grounded through wristband.
-Do not leave the module in high temperature and in areas of high humidity for a long time.
-Avoid contact with water as it may a short circuit within the module.
-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

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1. Monitor Specifications

Screen dimensions	Size	17" (43.2cm) Diagonal
	Viewable Image Size (VIS)	Diagonal 16 inches (40.6 cm)
	Pre-set Display Area	310mm x 230mm
	Dot Pitch	0.25 mm
	Deflection angle	90°
	Phosphor type	P22, Medium Short Persistence
Resolution	Horizontal scan range	30 kHz to 72 kHz (automatic)
	Vertical scan range	50 Hz to 160 Hz (automatic)
	Optimal preset resolution	1024 x 768 at 85 Hz
	Highest preset resolution	1280 x 1024 at 60Hz
	Highest addressable resolution	1280 x 1024 at 60Hz
Electrical	Video Input Signals	Analog, 0.7 Vpp, Positive at 75 ohm
	Synchronization Input Signals	Separate Horizontal and Vertical;
		TTL Level, Positive or Negative
	AC Input Voltage / Frequency / Current	100 to 240 VAC / 50 or 60 Hz ± 3 Hz /
		2.5 A max. at 100 VAC and
		1.2 A max. at 240 VAC
Physical Characteristics	Connector Type	15-pin Mini D-Sub
	Signal Cable Type	Attached To Monitor
	Dimensions & Weight:	
	Height (with base)	19.6 inches (402 mm)
	Width	20.0 inches (410 mm)
	Depth	20.4 inches (420 mm)
	Weight (monitor only)	33.5 lb (15.2 kg)
	Weight (with packaging)	38.3 lb (17.4 kg)
Environmental	Temperature:	
	Operating	32° to 104° F(0° to 40°C)
	Non-Operating	32° to 140° F(0° to 60°C)
	Humidity:	
	Operating	10% to 85% (non-condensing)
	Non-Operating	5% to 85% (non-condensing)
	Altitude:	
	Operating	0~3000m (0~10000 ft)
	Non-Operating	0~3000m (0~10000 ft)
	Thermal dissipation	347 BTU/hour(maximum)
		295 BTU/hour(typical)

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2. Precautions And Notices

2-1 Safety Precautions

1. Observe all caution and safety related notes located inside the display cabinet.
2. Operation of the display with the cover removed, may cause a serious shock hazard from the display power supply. Work on the display should not be attempted by anyone who is not thoroughly familiar with precautions necessary when working on high voltage equipment.
3. Do not install, remove or handle the picture tube in any manner unless shatter-proof goggles are worn. People who are not so equipped should be kept away while handling picture tube. Keep picture tube away from the body while handling.
4. The picture tube is constructed to limit X-RAY radiation to 0.5 mR/HR. For continued protection, use the designated replacement tube only, and adjust the voltages so that the designated maximum rating at the anode will not be exceeded.
5. Symbol“⚠” means safety relative parts. The use of substitute replacement parts which do not have the same characteristics as specified in the parts list may create shock, fire or explode etc.
6. Symbol“ ★ means X-ray relative parts. Before replacing any of these components please read the parts list in this manual carefully to avoid creating higher anode voltage or x-ray. Especially for sealed controls, such as VR902, VR903, VR701 and FBT screen VR etc, which were sealed by the manufacturer once their optimum position has been set, please don’t dismantle them as your likes, otherwise you will break or damage the component. If you need replace the parts with sealed control, please adjust the relative VR to make sure the B+ voltage under 59V and well seal it with A+B glue or equivalent, which you can not move away with one screw driver
7. Before returning a serviced display to the customer, a thorough safety test must be performed to verify that the display is safe to operate without danger or shock. Always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as screw heads.
   Test method for current leakage is described as follow.
   (a) Plug the AC line cord directly into rated AC outlet (do not use a line isolation transformer during this check).
   (b) Use an AC voltmeter having 5000 ohms per volt or with more sensitivity in the following manner: Connect a 1500 ohms 10 Watt resistor, paralleled by a 0.15UF, AC type capacitor between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts simultaneously. Measure the AC voltage across the combination of 1500 ohms resistor and 0.15UF capacitor.
   (c) Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part.
   (d) Voltage measured must not exceed 0.5 volts RMS. This corresponds to 0.35 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

2-2 Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-RAY radiation or other hazards.

2-3 Service Notes

1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
2. When replacing a high wattage resistor (more than 1/2W of metal oxide film resistor) in circuit board, keep the resistor about 10mm (1/2 in) away from circuit board.
3. Keep wires away from high voltage or high temperature components.
4. Keep wires in their original position so as to reduce interference.

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2-4 High Voltage Warning

Operation of monitor outside of cabinet or with back removed may cause a serious shock hazard. Work on this model should only be performed by those who are thoroughly familiar with precautions necessary when working on high voltage equipment.
Exercise care when servicing this chassis with power applied. Many B plus and high voltage terminals are exposed which, if carelessly contacted, can cause serious shock or result in damage to the chassis. Maintain interconnecting ground lead connections between chassis and picture tube dag when operating chassis.
Certain HV failures can increase X-ray radiation. Monitor should not be operated with HV levels exceeding the specified rating for the chassis type. The maximum operating HV specified for the chassis used in this monitor is

24.55KV ± 10.8KV

with a line voltage of 120/240 VAC. Higher voltage may also increase possibility of failure in HV supply.
It is important to maintain specified values of all components in the horizontal and high voltage circuits and anywhere else in the monitor that could cause a rise in high voltage or operating supply voltages. No changes should be made to the original design of the monitor. Components shown in the shaded areas on the schematic should be replaced with exact factory replacement parts. The use of unauthorized substitute parts may create a shock, fire or other hazard.
To determine the presence of high voltage, use accurate, high impedance, HV meter connected between second anode lead and CRT dag grounding device. When servicing the High Voltage System, remove static charge from it by connecting a 10K ohm resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead.(AC line cord disconnected from AC power outlet.)
The picture tube used in this monitor employs integral implosion protection. Replace with tube of the same type number for continue safety. Do not lift picture tube by the neck. Handle the picture tube only after discharging the high voltage completely.

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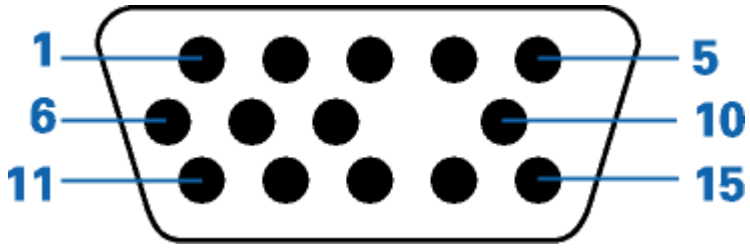
3. Operating Instructions

This procedure gives you instructions for installing and using the Color display.

1. Position the display on the desired operation and plug the power cord into a convenient AC outlet. Three-wire power cord must be shielded and is provided as a safety precaution as it connects the chassis and cabinet to the electrical conduit ground. If the AC outlet in your location does not have provisions for the grounded type plug, the installer should attach the proper adapter to ensure a safe ground potential.
2. Connect the 15-pin color display shielded signal cable to your signal system device and lock both screws on the connector to ensure firm grounding. The connector information is as follow:



15 - Pin Color Display Signal Cable

Pin Number	15-Pin Side of the Signal Cable	Pin Number	15-Pin Side of the Signal Cable
1	Video-Red	9	NC
2	Video-Green	10	GND
3	Video-Blue	11	NC
4	NC	12	SDA (serial data address)
5	GND	13	H-sync
6	GND-R	14	V-sync
7	GND-G	15	DDC clock
8	GND-B		*For DDC

3. Apply power to the display by turning the power switch to the "ON" position and allow about thirty seconds for display tube warm-up. The Power-On indicator lights when the display is on.
4. With proper signals feed to the display, a pattern or data should appear on the screen, adjust the brightness and contrast to the most pleasing display.
5. This monitor has power saving function following the VESA DPMS. Be sure to connect the signal cable to the PC.
6. If your color display requires service, it must be returned with the power cord.

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4. Adjustment

4-1 Adjustment Conditions And Precautions

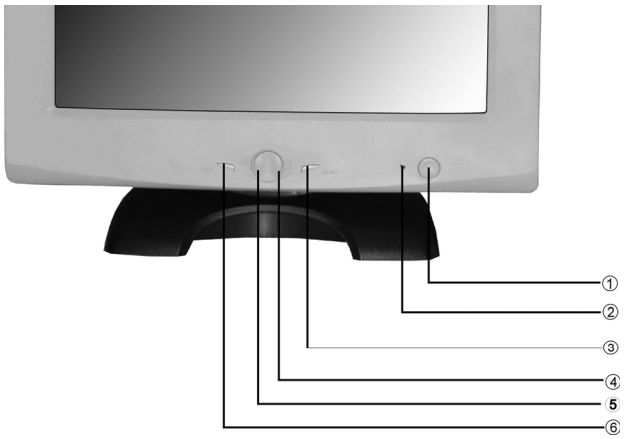
1. Approximately 30 minutes should be allowed for warm up before proceeding.
2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.

4-2 OSD Operating

General Instructions

The power switch is located at front panel of the monitor. Press the power switch to turn the monitor on or off. The other control knobs are located at the base of the monitor (See Figure 3). By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- To turn the monitor on, press the POWER switch to ON position. The power indicator will light up.
- Your monitor features a unique quick switch system which provides a picture within seconds after the monitor is switched on.



EXTERNAL CONTROLS

1	Power Switch
2	Power Indicator LED
3	MENU
4	Contrast/ >
5	Brightness/ <
6	Exit

Notes

- Save the original shipping carton and packing materials, as they will come in handy if you ever have to ship your monitor.
- For maximum protection, repackage your monitor as it was originally packed at the factory

Front Panel Control

·**Power Switch:** Press this key to switch on/off the display.Press this key to switch on/off the display.

·**MENU :** Press this key to either bring up the OSD setup or select an item on the menu.

·**Contrast :** During OSD setup, press this key to either select a function or to adjust up the value of a previously selected function.

During non-OSD setup, press this key to adjust the contrast.

·**Brightness:** During OSD setup, press this key to either select a function or adjust down the value of a previously selected function.

During non-OSD setup, press this key to adjust the brightness.

·**EXIT :** Exit a certain function or exit OSD setup.

- **Power Indicator :**

Green — Full Power Mode

Blinking Green — Active-off Mode

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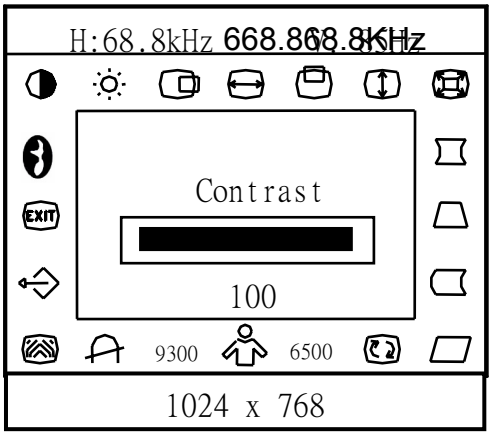
Adjusting the picture



Lcon		adjustment
	Contrast	Adjusts the contrast between the foreground and background of the screen image.
	Brightness	Adjusts the background brightness of the screen image.
	Horizontal position	Moves the screen image to the right or left.
	Horizontal size	Adjusts screen width.
	Vertical position	Moves screen image up or down.
	Vertical size	Adjusts screen height.
	ZOOM	Adjust the picture's horizontal and vertical size simultaneously.
	Pincushion	Straightens the left and right vertical edges of the display.
	Trapezoid	Adjusts the width of the top and bottom of the screen.
	Pin-Balance	Adjust to compensate the pincushion unbalance.
	Parallelogram	Adjusts the viewing area when it is tilted left or right.
	Rotation	Adjust the picture tilt to horizontal position.
	6500°K/9300°K	The color temperature for 6500°K is x=0.313, y=0.329 and 9300°K is x=0.283, y=0.297. It presents two different color sets on the screen. You can select 9300°K or 6500°K by pressing the Menu key .
	(Color Temperature)	
	User Color (Red/Blue)	If the 9300°K normal white or 6500°K warmer white do not satisfy your desire, properly adjust R.B GAIN controls to obtain your optimum whiteness level.
	Degauss	If color impurity occurs when moving or swiveling the monitor, press the Menu key and degauss to fix the picture condition.
	Moiré Reduce	Moiré is the result of interference between the phosphor layout and the video signal. In some cases, you may find the moiré very noticeable. Press the Menu key to enter in the moiré reduce setting. Please adjust the level to the optimum condition.
EXIT		Note: Too high of a setting will cause the picture to shake.
	Recall	Press RECALL to restore the monitor to factory settings.

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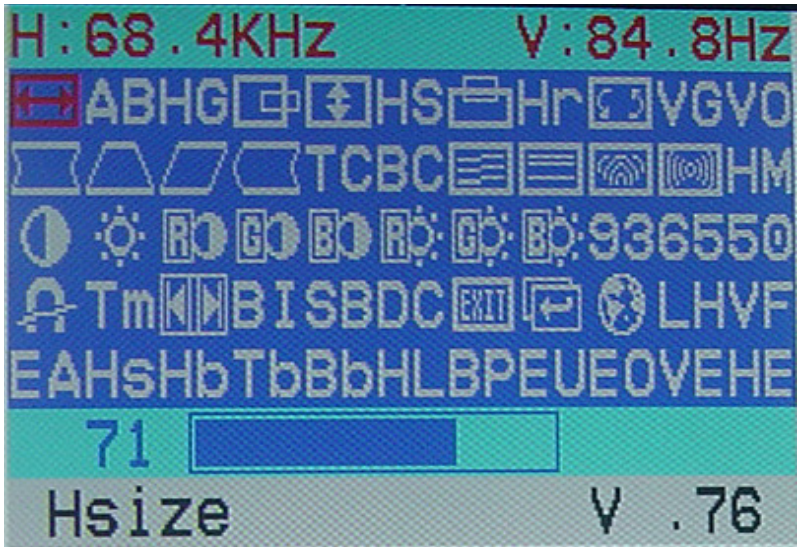
4-3 Adjustment Method

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal /Vertical)
IBM, 720 x 400	31.5	70	28.3	-/+
VGA, 640 x 480	31.5	60	25.2	-/-
VESA, 640 x 480	43.3	85	36	-/-
VESA, 800 x 600	53.7	85	56.3	+/+
VESA, 1024 x 768	68.7	85	94.5	+/+
VESA, 1280 x 1024	64	60	108	+/+

1. TP901, B + & HV voltage adjustment:
   A. Chroma-2000 Signal generator or PC equivalent set mode 6, UVGA 1024X768 pattern 1.0 .
   B. Connect a DC Volt meter between D922"-" and ground, then adjust VR903 to be 14VDC for CPT CRT.
   C. Connect a DC Volt meter between D925"-"and ground, then adjust VR902 to be 154.5 VDC for CPT CRT.
2. Factory preset Timings Adjustment:
   A. Press MENU Key to show OSD window press Up or Down Key to switch the functional controls.
   B. Press the Up Key to select the "ZOOM" function, then press the MENU Key. While do not release the MENU Key until the OSD window changed to the Factory preset window.
   C. The Factory preset window contains the following functional controls. Select one of the control. Then press the Up/Down Key to adjust its value for the optimum picture.



	CONTRAST		H-MOIRE REDUCE
	BRIGHTNESS		V-MOIRE REDUCE
	H-CENTER	R	R-GAIN
	H-SIZE	G	G-GAIN
	V-CENTER	B	B-GAIN
	V-SIZE	R	R-BIAS
TM	BURN IN TIME	G	G-BIAS
	PINCUSHION	B	R-BIAS
	TRAPEZOID		DEGAUSS
	PIN-BALANCE	EXIT	OSD EXIT

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	PARALLELOGRAM	**HG**	H-SIZE GAIN
	ROTATION		V-LINEARITY BALANCE
	RETURN	**VO**	V-CENTER OFFSET
Bb	BOTTOM BALANCE	**TC**	Top corner
9300	9300 COLOR TEMPERATURE	**BC**	BOTTOM CORNER
6500	6500 COLOR TEMPERATURE	**HM**	MAX H-SIZE RANGE
5000	5000 COLOR TEMPERATURE	**SB**	HIGH BRIGHTNESS SELECT
BI	SET BURN-IN	**DC**	video IC dc off set
HS	SUB-H-SIZE	**LH**	Brightness Save
	V-LINEARITY		Language select
AB	ABL		FREQUENCY SELECT
VG	MAX V-SIZE GAIN RANGE	**Hr**	H-SIZE RANGE COMPENSATION
HL	H-Linearity Modify	**VF**	V-FOCUS ADJUST
BP	B+ VOLTAGE ADJUST	**EA**	EHT AUTO ADJUST(NC)
EU	EHT CURRENT (NC)	**Hs**	H-SIZE WAVE
EO	EHT OFFSET(NC)	**Hb**	H-SIZE WAVE BALANCE
VE	V-EHT COMPENSATION	**Tb**	TOP BALANCE
HE	H-EHT COMPENSATION		

D. To switches the input signal to the other Timing Mode. Please follow step A ~ C to get the optimum picture.

E. Select the " " RETURN function and press the MENU Key, then the Factor Preset window will be returned to the original OSD window.(user's operating condition)

F. The setting data of the CONTRAST, BRIGHTNESS, COLOR TEMPERATURE are common mode saved in the memory. Don't needed adjust it individual at every timing Mode and save in the memory.

3. White Balance, Luminance adjustment:

A. Bias (Low Luminance) adjustment:

(a) Set mode1024×768 @85Hz full white pattern.

(b) To make the adjustment condition is under the Factory preset window. Same as step 2-B.

(c) Warm up more than 20 minutes.

(d) Brightness set to maximum. Contrast set to max. full white pattern, then adjust FBT screen VR to make Y=1.0±0.1Fl

(e) Brightness set to raster just cut off (Y=0.1±0.02 Fl), adjust contrast to be 4FL, then adjust G-Bias , B-Bias , R-Bias , to make the setting value is(10), then adjust the R.G.B Bias individual to the color temperature x=265±10, y=290±10.

B. Gain (High light) adjustment:

(a) Set mode 6 1024×768 @ 85Hz full white pattern.

(b) Brightness set to raster just cut off and set the contrast to max.

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(c) Adjust G-Gain , B-Gain , R-Gain , to make color temperature x=281 ±10, y=311 ± 10, Y= 45±1Fl.

C. Recheck item A&B to make sure both of them in spec. Finally select OSD function to the 9300°K function, then press the MENU Key. To make the setting data saved in the memory.

D. The adjustment of 6500°K white Balance, May follow step A ~ C , with the x=313 ± 10, y=329 ± 10, Y=45±1Fl.

E. The adjustment of RGB white balance, May follow step A ~ C , with the x=313 ± 10, y=329 ± 10, Y= 45±1Fl.

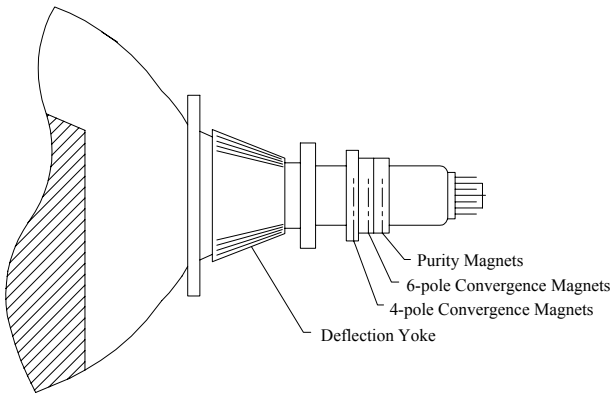
F. Full white luminance:
(a) Set mode6 1024×768 @ 85Hz full white pattern.
(b) Image Size : H:310±4mm V:220±4mm.
(c) Brightness set to raster just cut off and set the contrast to max.
(d) Adjust VR701 to the luminance at 30± 1Fl.

G. About the HB model, please follow step B~F to adjustment the gain and full white luminance. And the value of 'Y' as below(There are not 6500°K color of INTERNET and VIDEO model):
Y=60±1Fl(gain of INTERNET model), Y=130±1Fl(gain of VIDEO model)
Y=34±1Fl(full white luminance of INTERNET model), Y=37±1Fl(full white luminance of VIDEO model)

4. Focus Adjustment:
A. Set mode6 1024×768@85Hz with character full page.
B. Adjust brightness to center and contrast to max.
C. Then adjust focus VR1 to a fine vertical line.
D. Adjust focus VR2 to a fine horizontal line.
E. Repeat step C & D.

5. Purity Adjustment
A. Be sure that the display is not being exposed to any external magnetic fields.
B. Ensure that the spacing between the Purity, Convergence, Magnet, (PCM), assembly and the CRT stem is 29mm. (See below diagram)
C. Produce a complete, red pattern on the display. Adjust the purity magnet rings on the PCM assembly to obtain a complete field of the color red. This is done by moving the two tabs in such a manner that they advance in an opposite direction but at the same time to obtain the same angle between the two tabs, which should be approximately 180'.
D. Check the complete blue and complete green patterns to observe their respective color purity. Make minor adjustments if needed.

RELATIVE PLACEMENT OF TYPICAL COMPONENTS



6. Convergence adjustment
A. Produce a magenta crosshatch on the display.
B. Adjust the focus for the best overall focus on the display.
Also adjust the brightness to the desired condition.
C. Vertical red and blue lines are converged by varying the angle between the two tabs of the 4 pole magnets on the PCM assembly. (See above diagrams)
D. Horizontal red and blue lines are converged by varying the two tabs together, keeping the angle between them constant.
E. Produce a white crosshatch pattern on the display.
F. Vertical green and magenta lines are converged by varying the angle between the two tabs of the 6-pole magnets.
G. Horizontal green and magenta lines are converged by varying the two tabs together, keeping the angle between them constant.

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5. Circuit Description

5-1 Micro Controller Circuit

MICRO Controller

The IC101 contains a NT6865UG 8-bit CPU core, 256 bytes of RAM, 16K bytes of ROM,14 channel 8 bit PWM D/A converters, 2 channel A/D converters for key detection, one 8 bit pre-loadable base timer, internal H-sync and V-sync signals processor providing mode detection, watch- dog timer preventing system from abnormal operation, and an I^2C bus interface.

H/V sync signals processor

The functions of the sync processor include polarity detection, H-SYNC & V-SYNC signals counting, Programmable SYNC signals output, free running signal generator. Pin40/Pin41 are for the H-SYNC and V-SYNC input, Pin33/Pin34 will output the same signal as input sync signal without delay, and the polarity are setting in the positive. When no signal input, the Pin33 will output a 72Hz V-SYNC free run signal. The Pin34 will output a 48KHz H-SYNC free run signal. for the monitor testing use.

On Screen Display Controller

The IC801 is designed for display the built-in characters or fonts onto monitor screen. The display operation is by transforming data and control information from micro controller to RAM through a serial data interface.
Pin 9 is used to control the internal oscillator frequency by DC voltage input from external low pass filter (R830, C811,) .
Pin24 is input the horizontal fly back pulse, for PLL generator tracking.
Pin12 the clock-input pin is used to synchronize the data transfer.

5-2 Deflection Circuit

The deflection circuit is achieved by a high performance and efficient solution IC401 (STV9118) for this monitor. The concept is fully DC controllable and can be used in applications with a micro-controller solutions. The STV9118 provides sync. Processing with full auto sync. Capability, a flexible SMPS block and an extensive set of geometry control facilities. Further the IC generates the drive waveforms for DC coupled vertical boosters to the TDA9302A.

Horizontal Oscillator

The oscillator is of the relaxation type and requires a capacitor of 1nF C409 at pin6. The free running frequency is determined by a resistor R412 5.1K form pin8 to ground.

PLL 1 Phase Detector

The phase detector is a standard one using switched current sources. It compares the middle of H-sync. with a fixed point on the oscillator saw-tooth voltage. The PLL loop filter C435, C437, R411 is connected to Pin9.

PLL2 Phase Detector

This phase detector is similar to the PLL1 detector and compares the line flyback pulse at pin 12 with the oscillator saw-tooth voltage. The PLL2 detector thus compensates for the delay in the external H-deflection circuit by adjusting the phase of the HDRV output pulses. The phase between H-flyback and H-sync can be controlled at pin5.

X-ray Protection

The X-ray protection input pin25 provides a voltage detector with a precise threshold. If the voltage exceeds this threshold for a certain time, an internal latch switches the whole IC into protection mode. In this mode several pins are forced into defined states:
Pin28 (BDRV) is floating
Pin26 (HDRV) is floating
Pin21, 23 (VOUT 1, 2) are floating

Vertical Oscillator

The vertical free –running frequency is determined by the capacitance C613 at pin22. Usually the free-running frequency should be lower than the minimum trigger frequency.

英华家电维修资料专用 QQ:505966338

5-3 Transistor & Diode Circuit

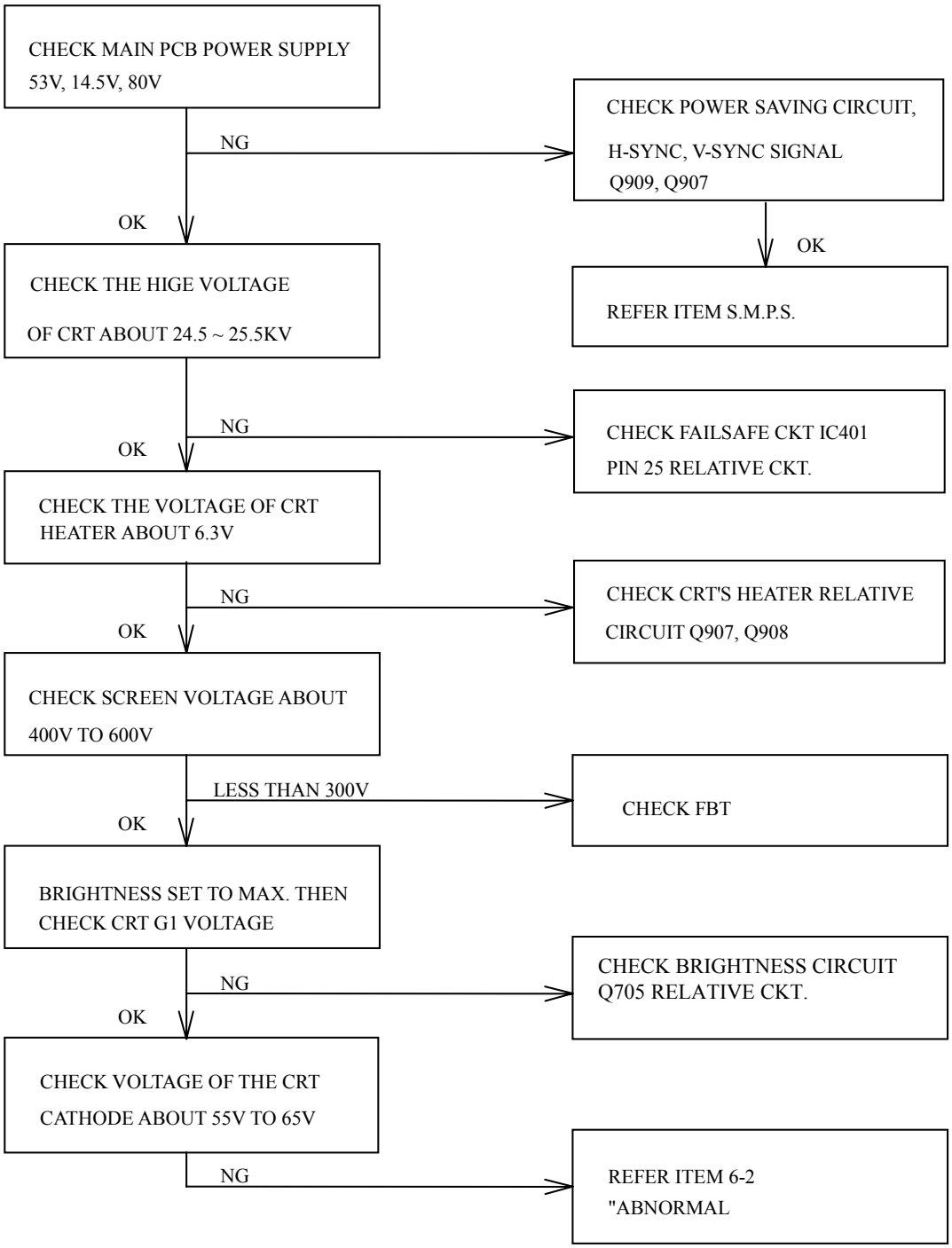
LOCATION	CIRCUIT FUNCTION DESCRIPTION
D901 ~ D904	Bridge Rectifier for AC Source
D910	Clamp Diode for snub CKT
D918, D919	Rectifier for Output Voltage
D922	Rectifier for Output Voltage
D923	Rectifier for Output Voltage
D925	Rectifier for B+ Supply
D929	B+ Feed Back Rectifier from F.B.T Pulse
Q901	MOS FET for Switching Power Control.
Q907, Q908	Use for Off-Mode to Cut-off 6.3V Supply Voltage
Q909, Q910	Use for Stand-By or Suspend Mode to Cut-off 14V Supply Voltage
Q912, Q920	Push-Pull Topology to Drive Q911
Q913	Degaussing Switcher Transistor
Q921	5V Regulator Transistor
Q401	Turn-on at Power ON/OFF and Change Mode to Protect Hor.Block
Q402	HOR. Driver Transistor
Q407, Q408	As a Switcher for Horizontal S Correction CKT
Q426	Horizontal s correction control MOSFET
Q404, Q405	As Differential Amp. to Drive Q406
Q406	Transistor for H-Size Control
Q705	Brightness Control CKT
Q741 , Q742	V-Dynamic focus CKT
Q821 ~ Q823, Q830 ~ Q832	Video DC Restoration control transistor

英华家电维修资料专用 QQ:505966338

6.Trouble Shooting Chart

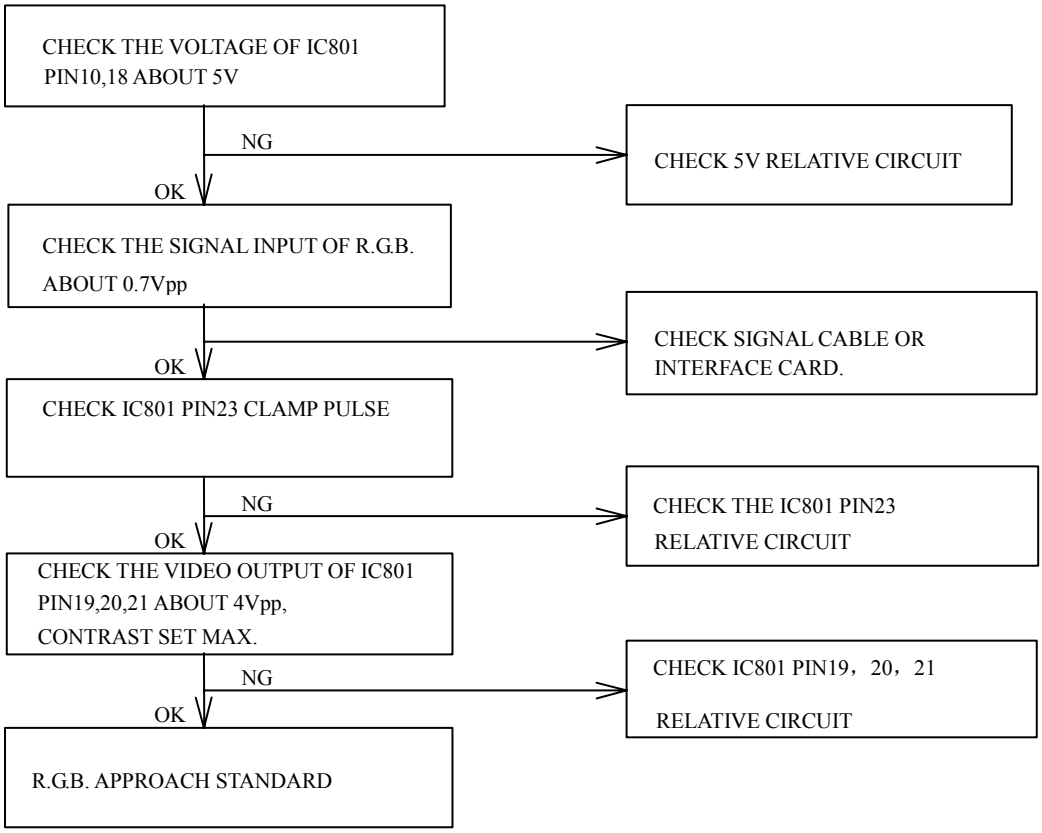
6-1 No Raster

1.CRT Relative Circuit Problems

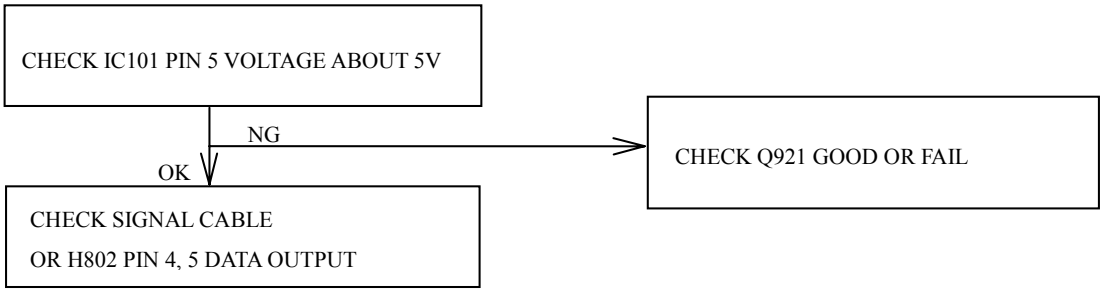


英华家电维修资料专用 QQ:505966338

2. Abnormal Video Level On Screen


CHECK THE VOLTAGE OF IC801 PIN10,18 ABOUT 5V
NG
CHECK 5V RELATIVE CIRCUIT
OK
CHECK THE SIGNAL INPUT OF R.G.B. ABOUT 0.7Vpp
CHECK SIGNAL CABLE OR INTERFACE CARD.
OK
CHECK IC801 PIN23 CLAMP PULSE
NG
CHECK THE IC801 PIN23 RELATIVE CIRCUIT
OK
CHECK THE VIDEO OUTPUT OF IC801 PIN19,20,21 ABOUT 4Vpp, CONTRAST SET MAX.
NG
CHECK IC801 PIN19，20，21 RELATIVE CIRCUIT
OK
R.G.B. APPROACH STANDARD

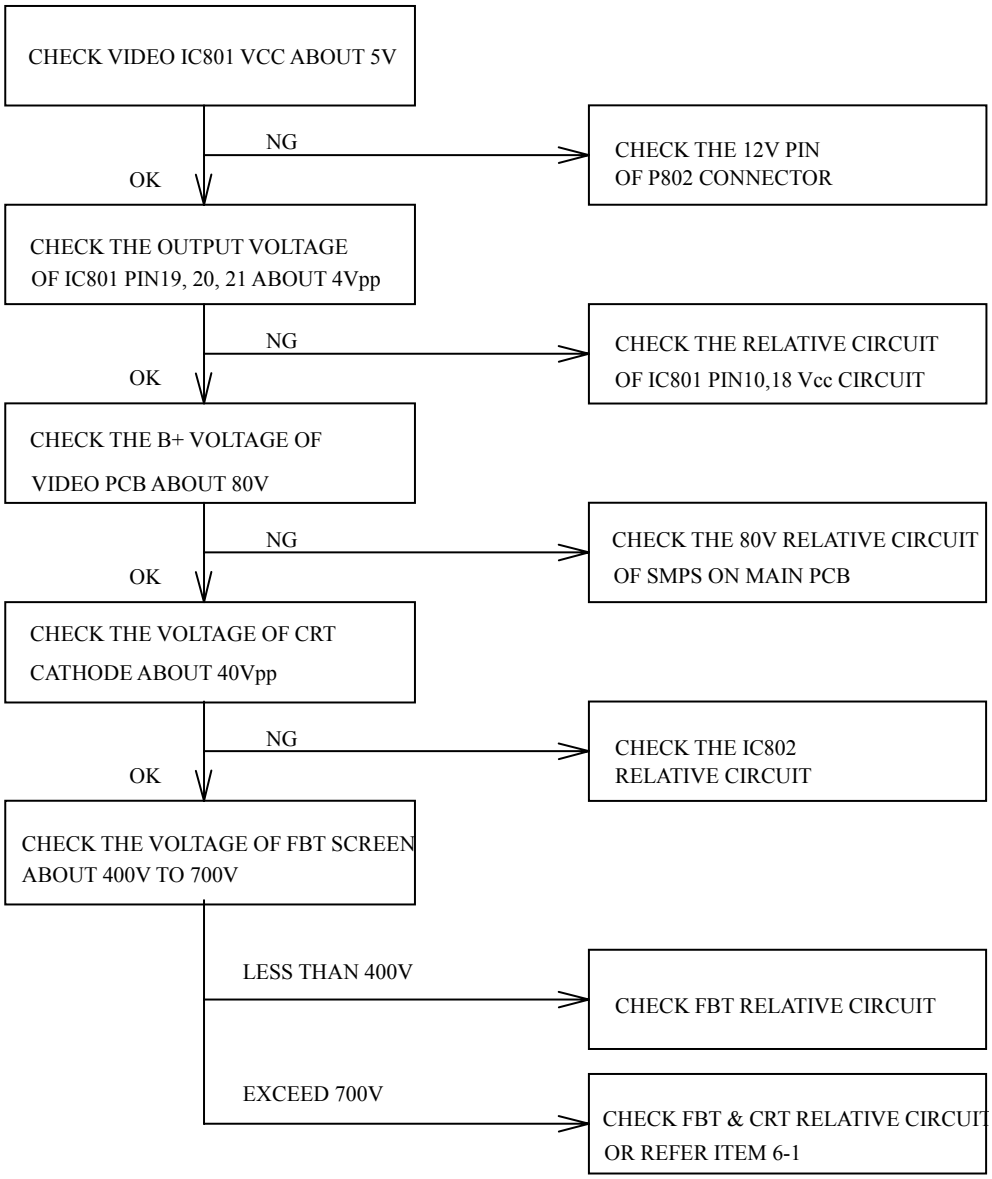
3. Abnormal DDC (Plug & Play)



英华家电维修资料专用 QQ:505966338

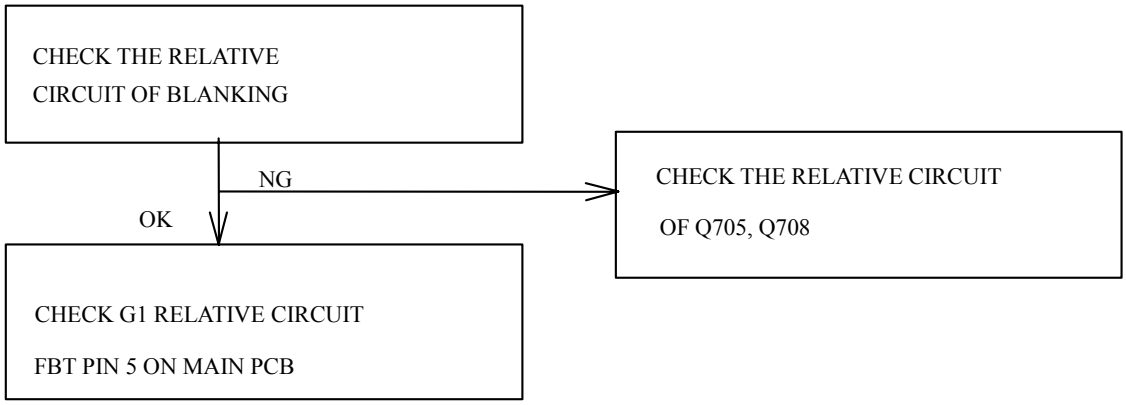
6-2 Abnormal Display

1.No Signal On Screen


CHECK VIDEO IC801 VCC ABOUT 5V
NG
CHECK THE 12V PIN OF P802 CONNECTOR
OK
CHECK THE OUTPUT VOLTAGE OF IC801 PIN19, 20, 21 ABOUT 4Vpp
NG
CHECK THE RELATIVE CIRCUIT OF IC801 PIN10,18 Vcc CIRCUIT
OK
CHECK THE B+ VOLTAGE OF VIDEO PCB ABOUT 80V
NG
CHECK THE 80V RELATIVE CIRCUIT OF SMPS ON MAIN PCB
OK
CHECK THE VOLTAGE OF CRT CATHODE ABOUT 40Vpp
NG
CHECK THE IC802 RELATIVE CIRCUIT
OK
CHECK THE VOLTAGE OF FBT SCREEN ABOUT 400V TO 700V
LESS THAN 400V
CHECK FBT RELATIVE CIRCUIT
EXCEED 700V
CHECK FBT & CRT RELATIVE CIRCUIT OR REFER ITEM 6-1

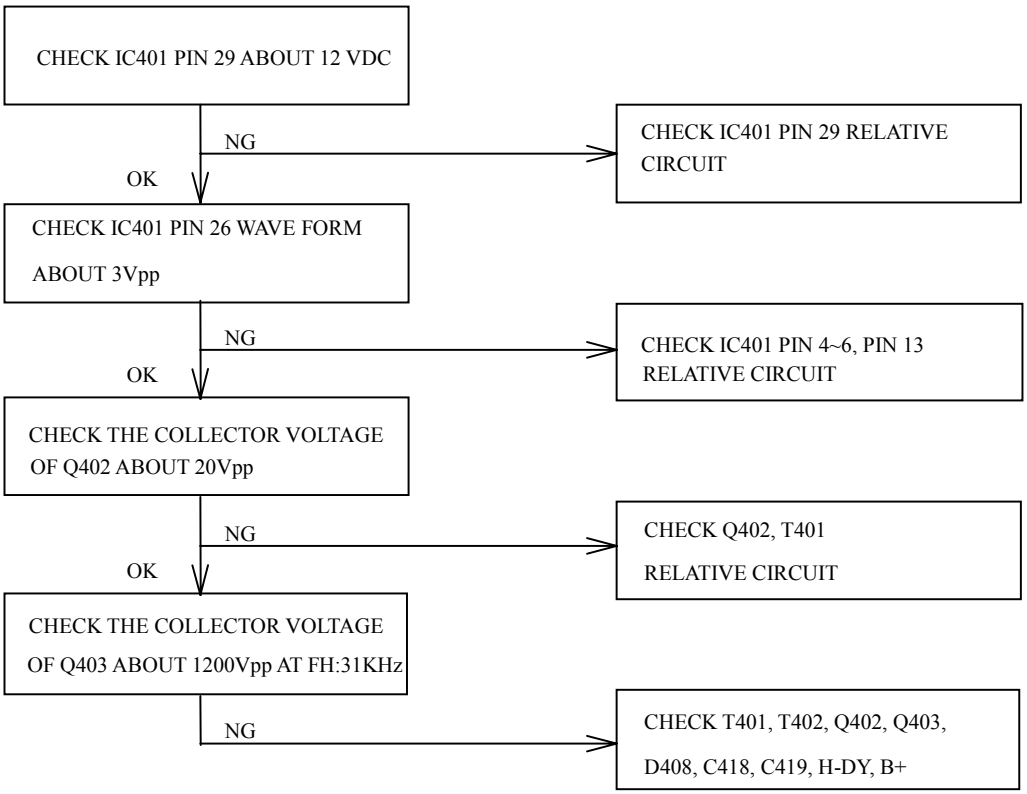
英华家电维修资料专用 QQ:505966338

6-3 No Blanking



6-4 Hor./Osc/Def/Hv Circuit Fault

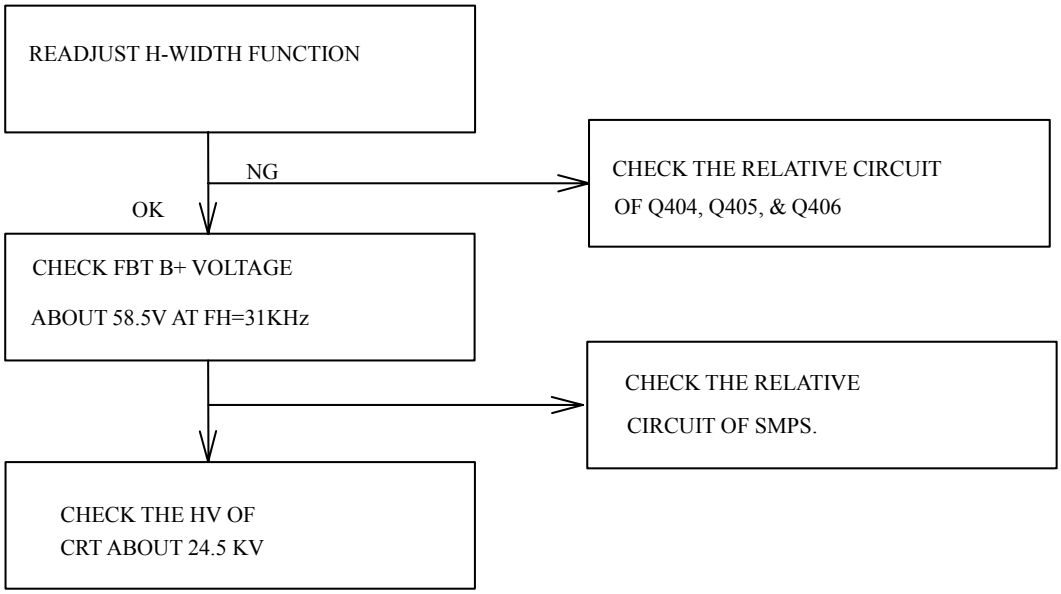
1. No Raster (Disconnect With Signal Cable)



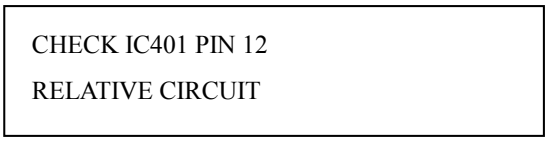
英华家电维修资料专用 QQ:505966338

6-5 Abnormal Horizontal Deflection

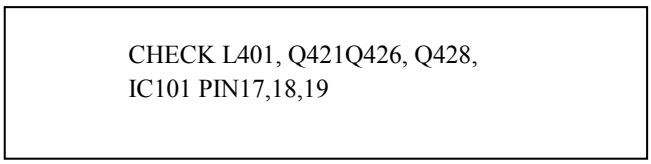
1. Abnormal Horizontal Width Of Video



2. Abnormal Horizontal Video Center



3. Abnormal Horizontal Linearity



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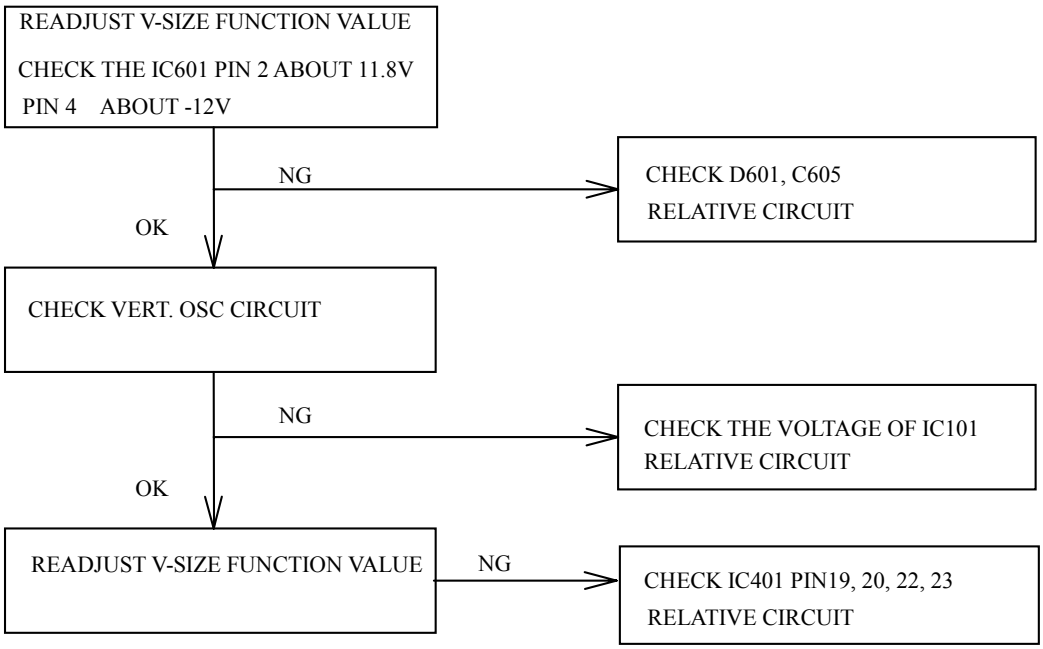
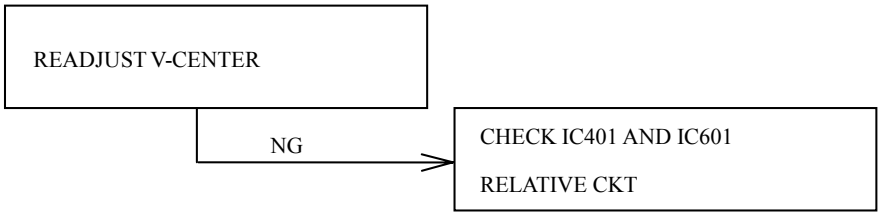
6-6 Abnormal Vertical Scanning

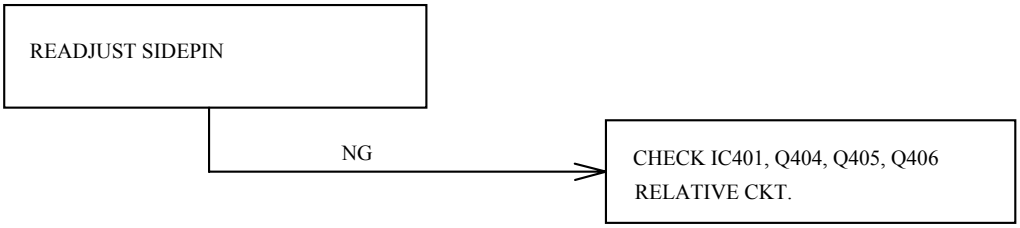
1. Abnormal Vertical Size



2. Vertical Center

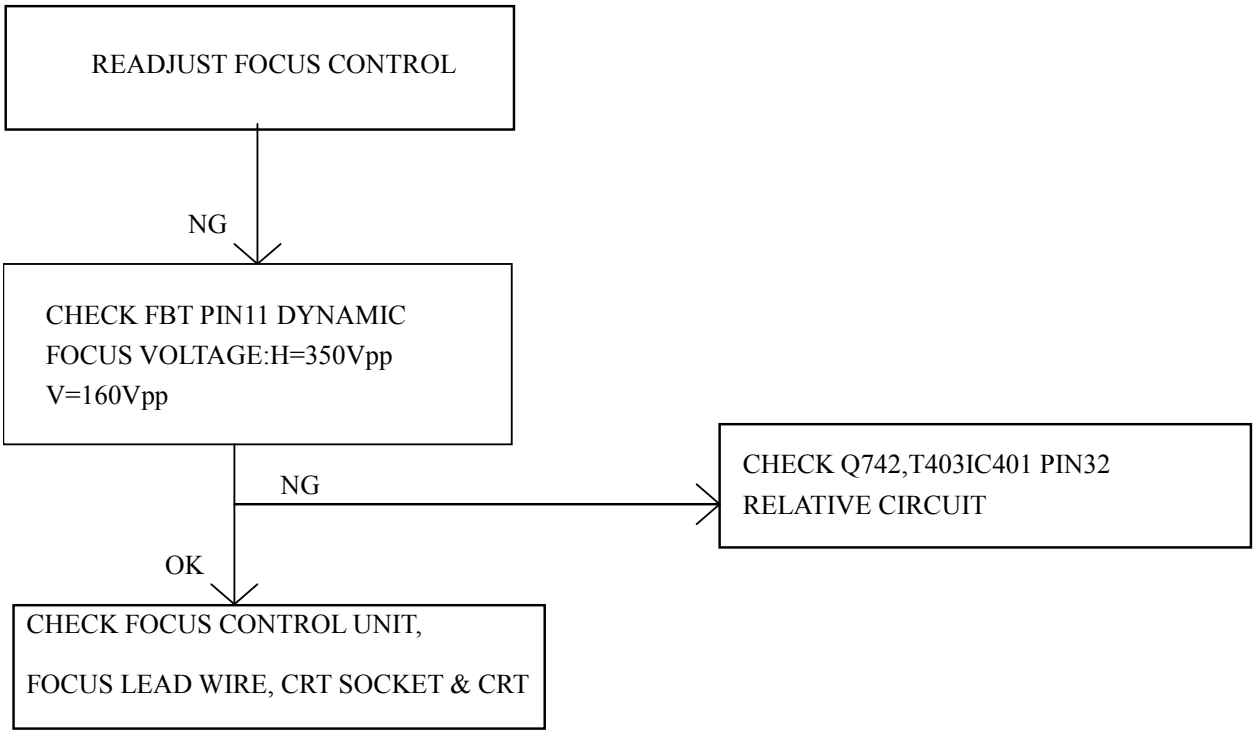


6-7 Side-Pin Cushion Distortion



英华家电维修资料专用 QQ:505966338

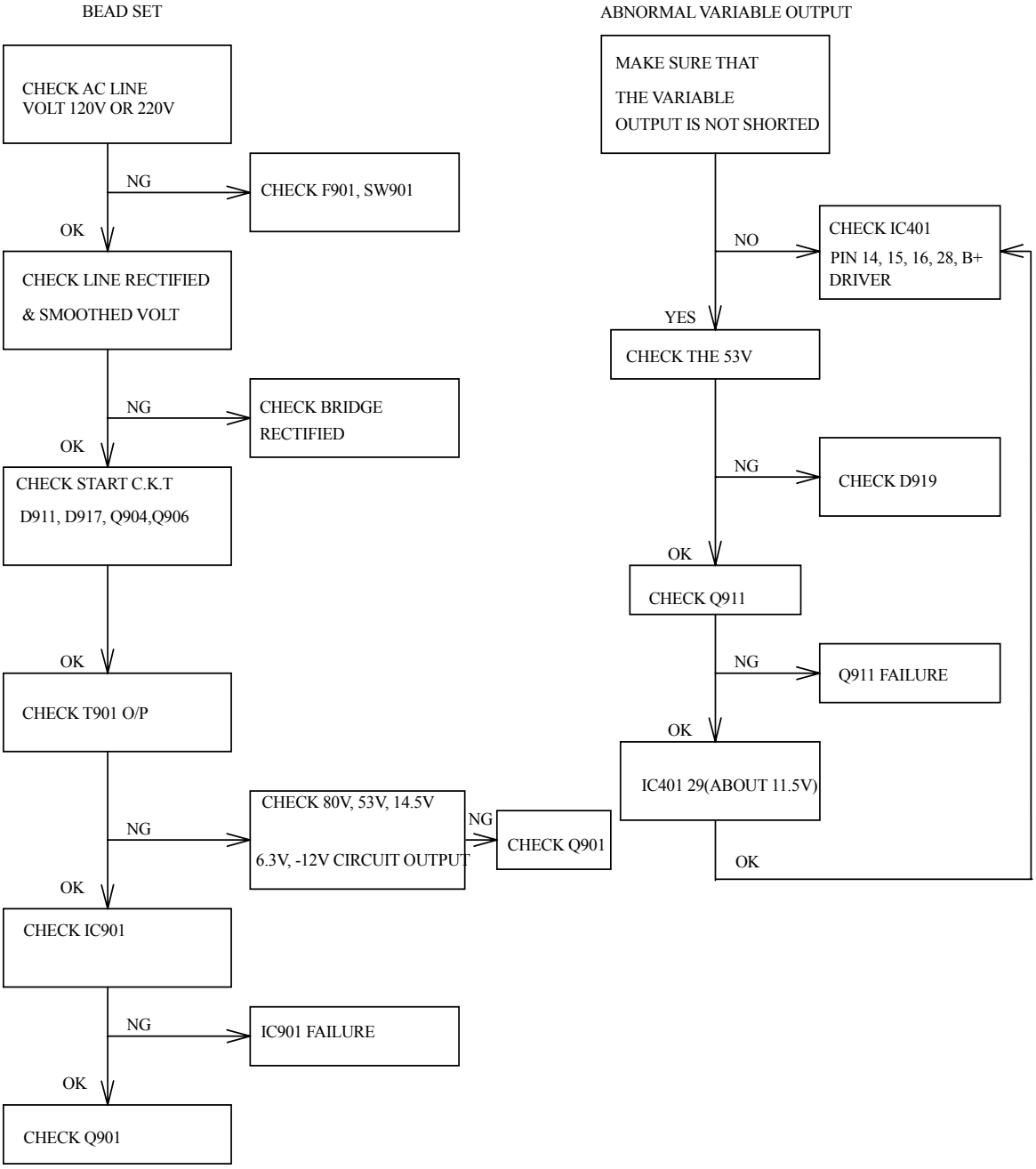
6-8 Poor Focus



英华家电维修资料专用 QQ:505966338

6-9 Power Supply Trouble Shooting Chart

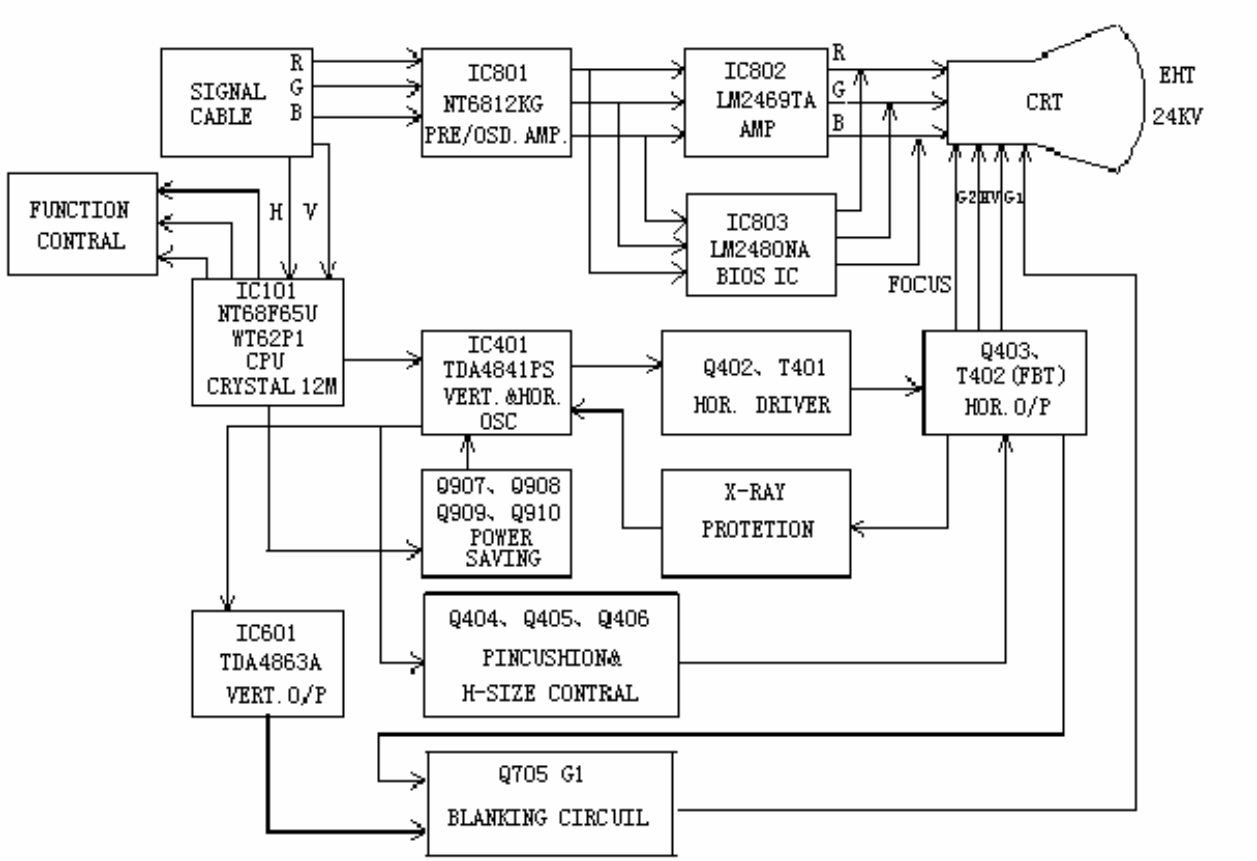
BEFORE CHECK SW.REG. PLEASE REFER TO THE POWER SUPPLY BLOCK DIAGRAM
POWER SUPPLY OUTPUT: (A) VARIABLE OUTPUT : 58V - 180V
(DEPENDING EPENDING UPON H.SYNC FREQUENCY)
(B) CONSTANT OUTPUT : 6.3V, 14.5V, -12V, 80V



英华家电维修资料专用 QQ:505966338

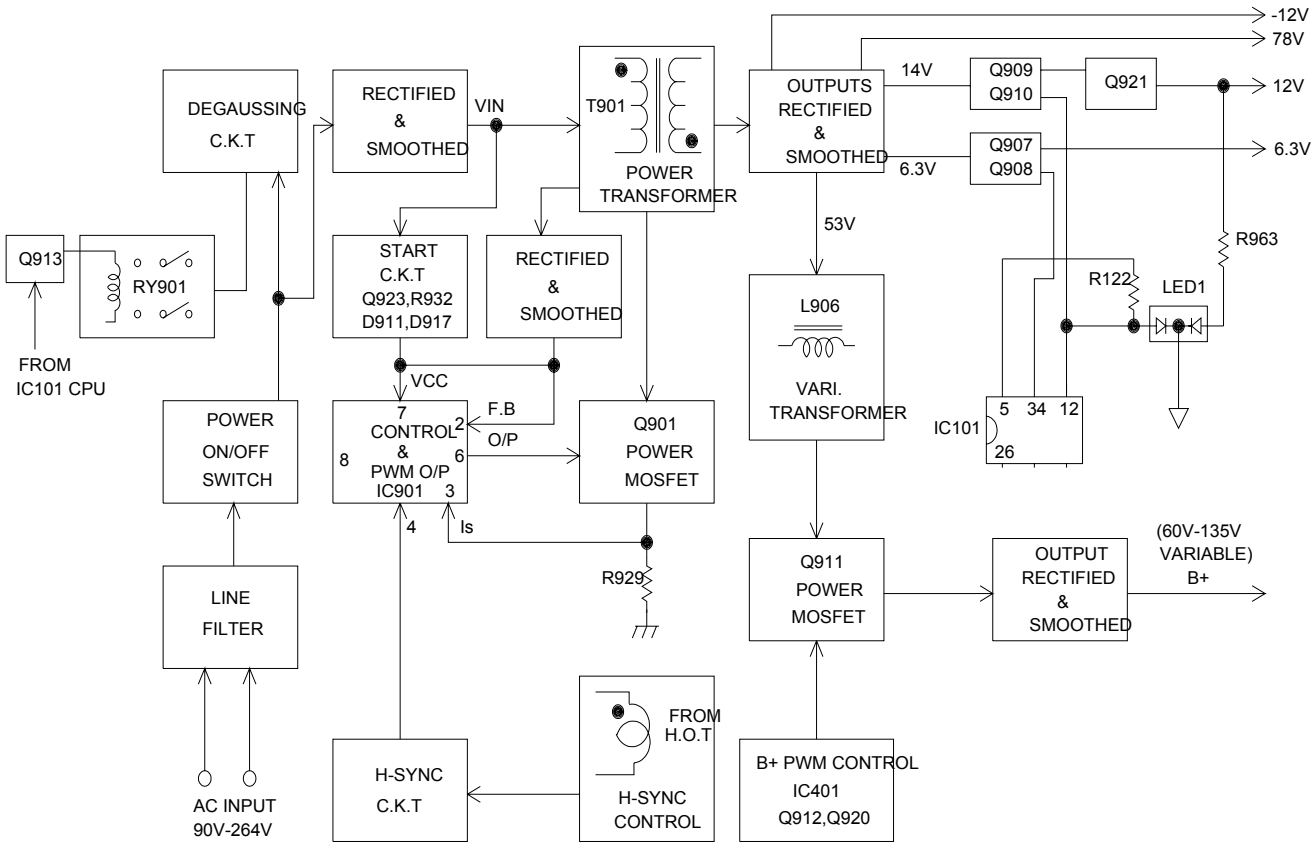
7. Block Diagram

7-1. Main Board



英华家电维修资料专用 QQ:505966338

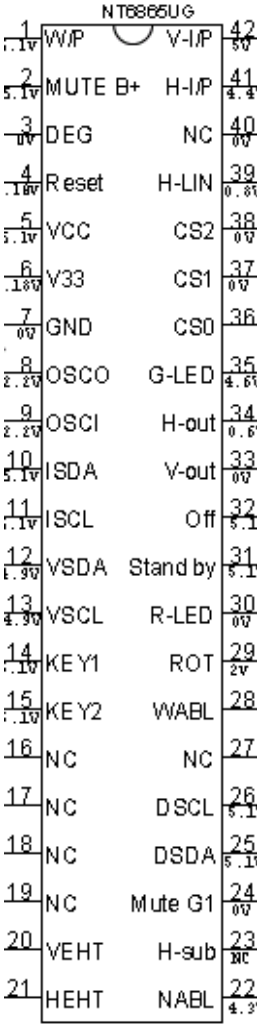
7-1 Power



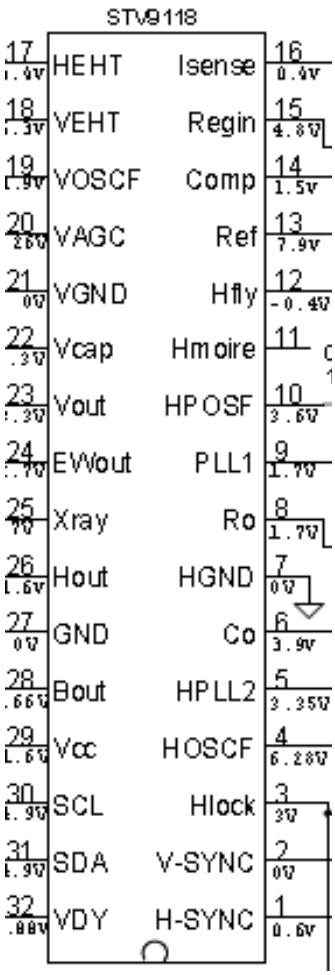
英华家电维修资料专用 QQ:505966338

8. IC Block Diagram

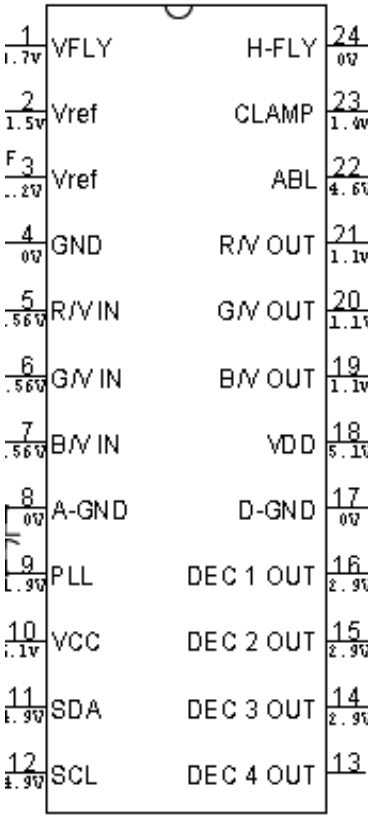
IC101
NT6866UG

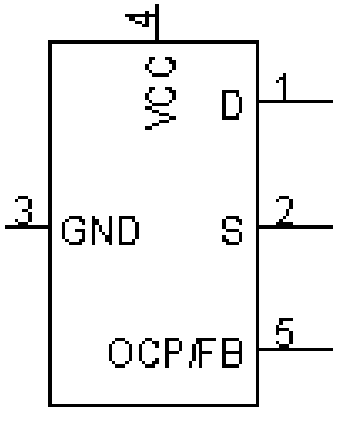


IC401 56A573-513
STV9118



IC801 56A366-509
LM1246





IC901 56A379-504
STR-G5643D

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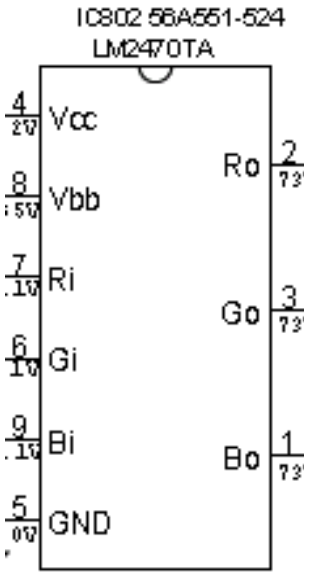
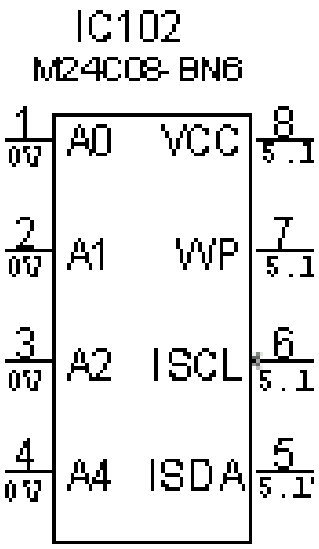
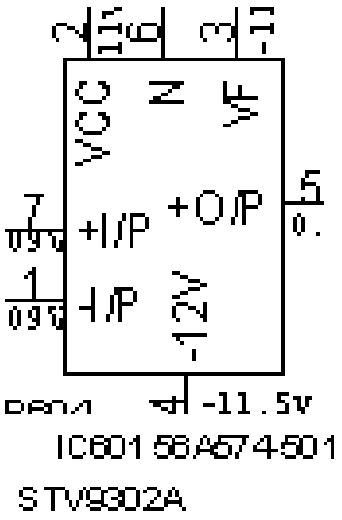
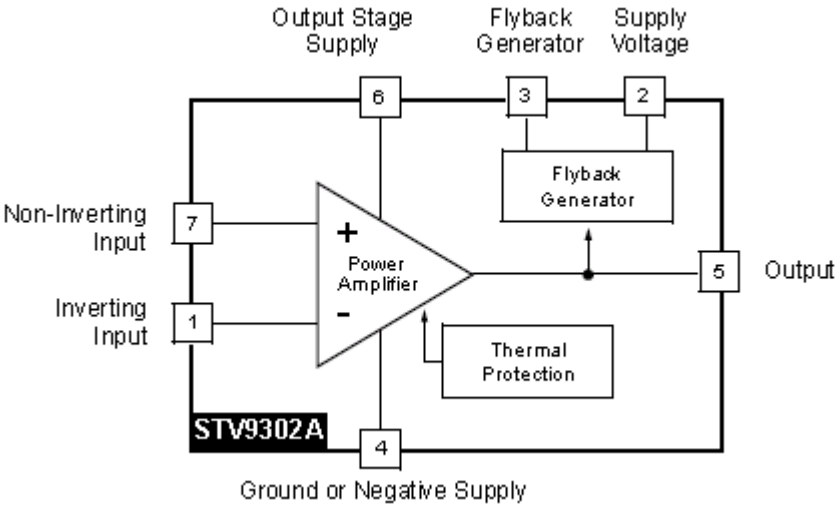




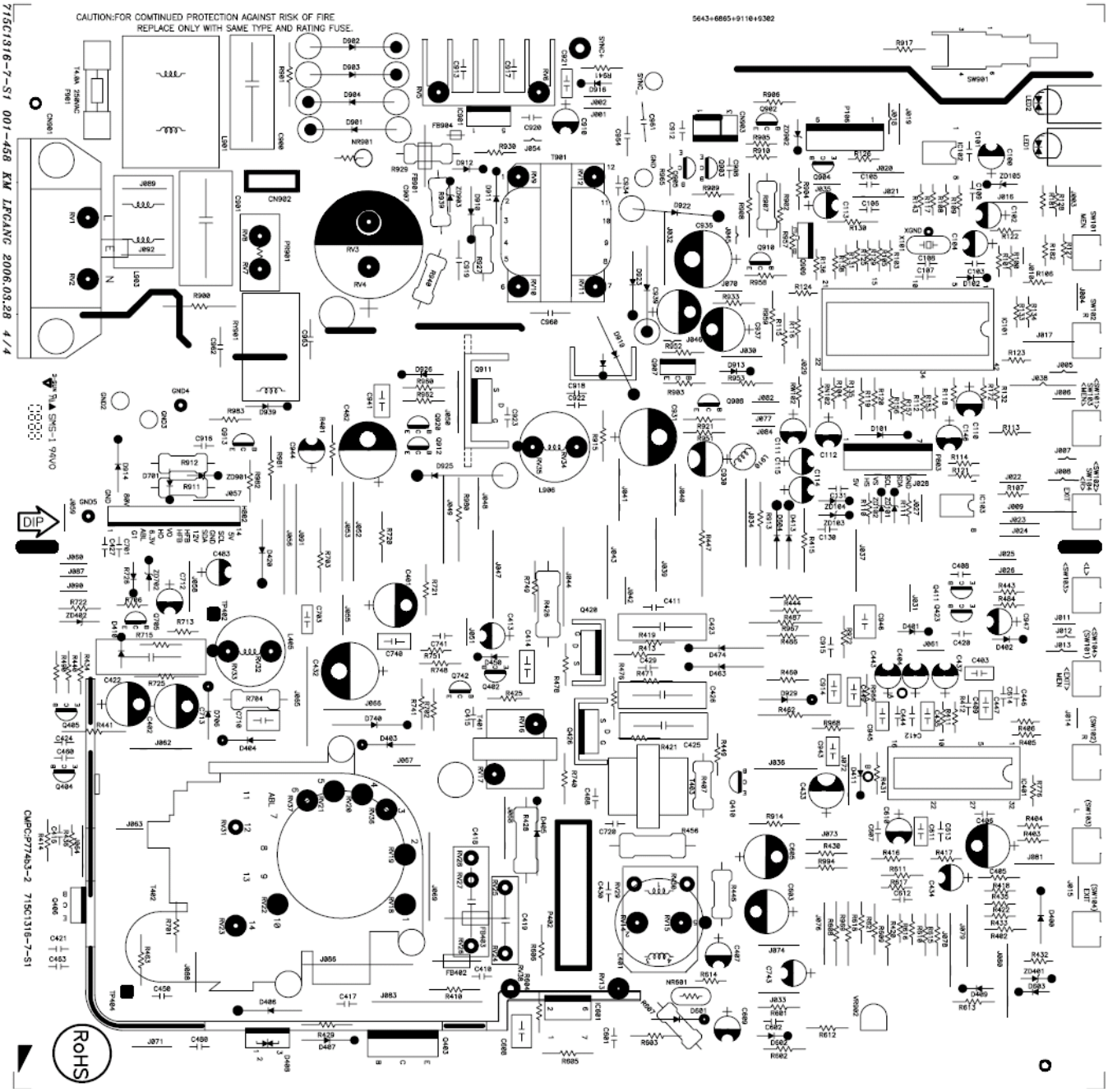




英华家电维修资料专用 QQ:505966338

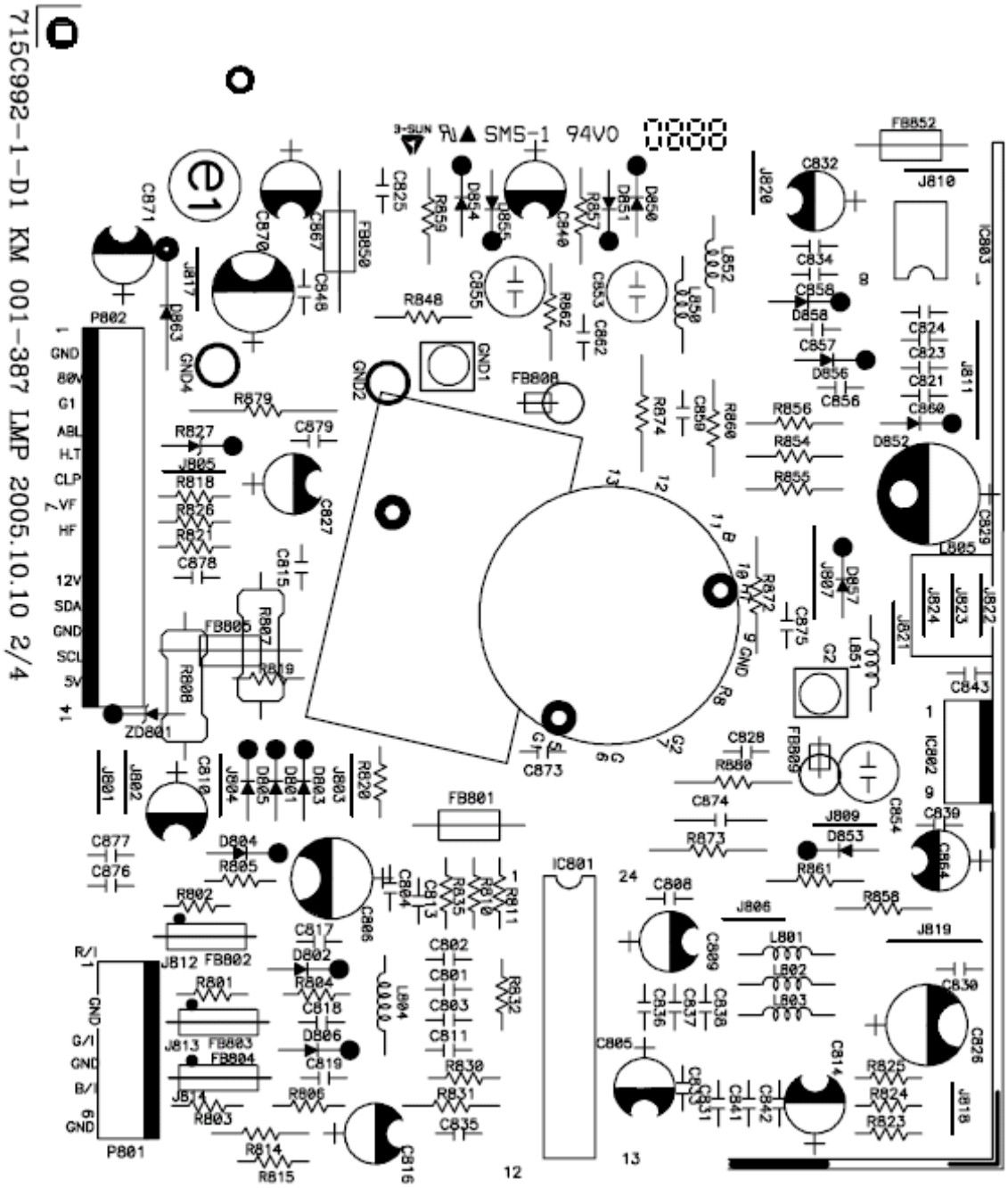
9. PCB Layout

9-1 Main Board



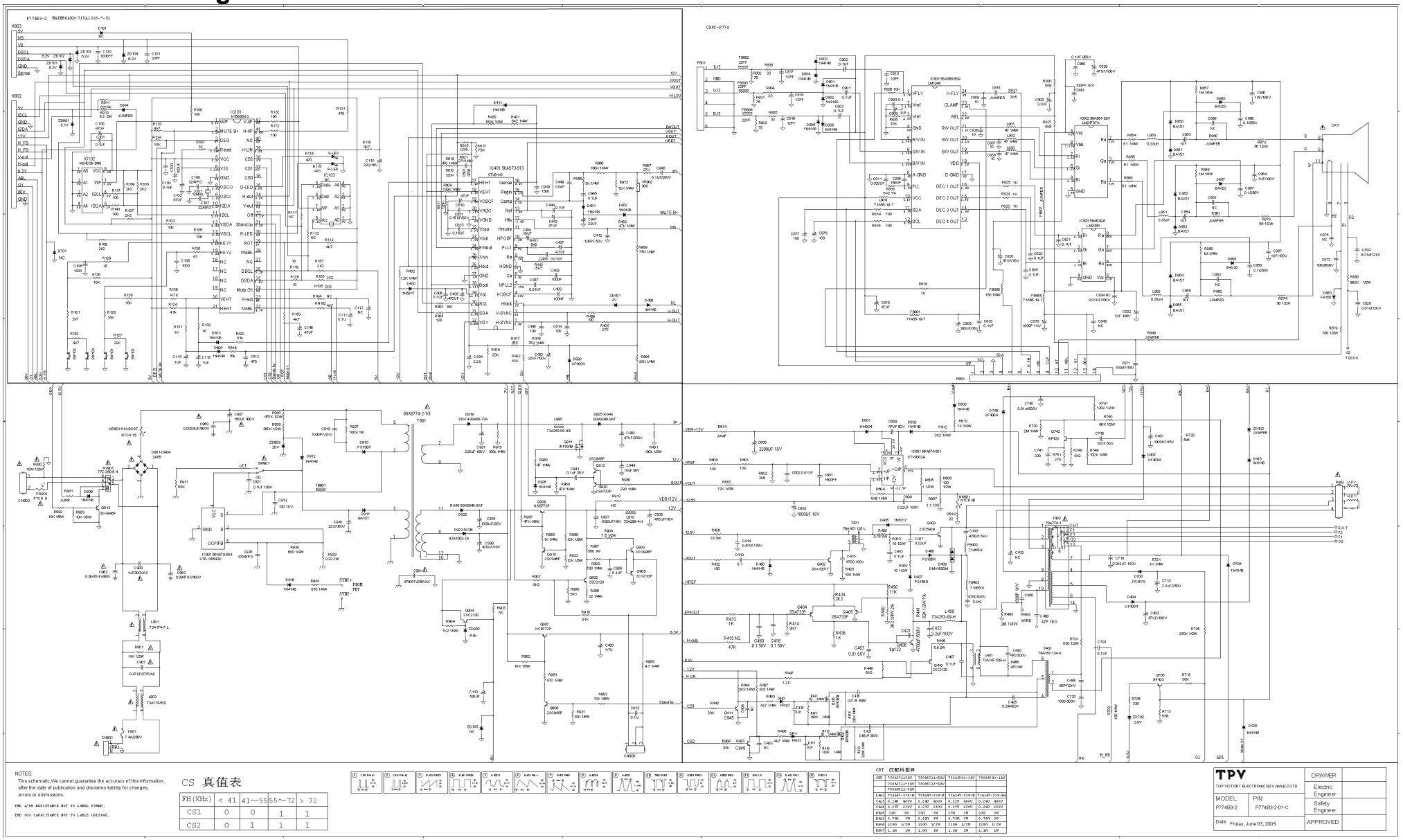
英华家电维修资料专用 QQ:505966338

9-2 CRPC Board



英华家电维修资料专用 QQ:505966338

10 Schematic Diagram



NOTES
This schematic,We cannot guarantee the accuracy of this information, after the date of publication and disclaims liability for changes, errors or omissions.

THE I/V# RESISTANCE NOT TO LABEL POWER.

THE 50V CAPACITANCE NOT TO LABEL VOLTAGE.

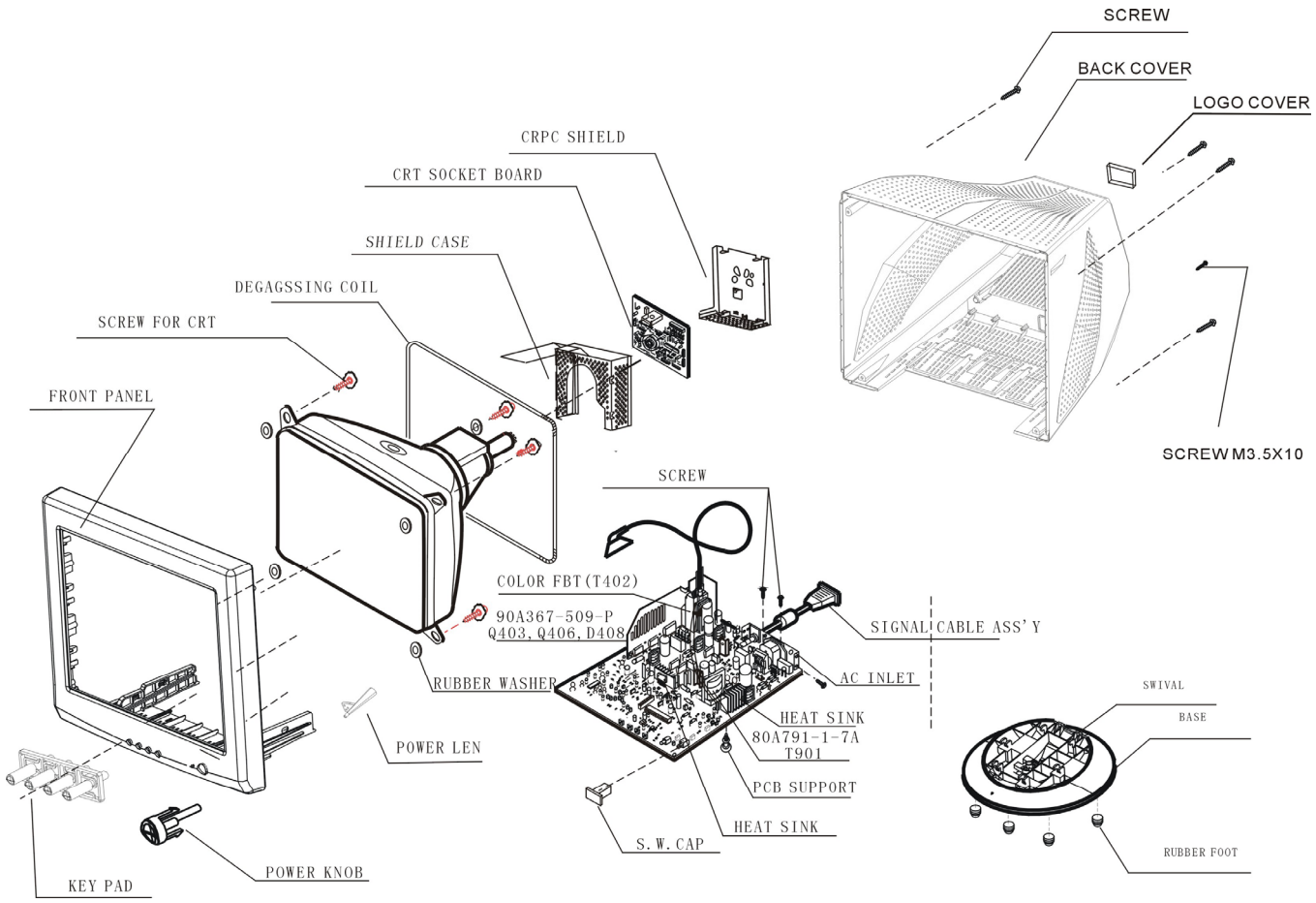
CS 真值表

FH(KHz)	< 41	41~55	55~72	> 72
CS1	0	0	1	1
CS2	0	1	1	1

TPV		
TOP VICTORY ELECTRONICS(FUJIAN)CO.,LTD		DRAWER
MODEL: P774B3-2	P/N: P774B3-2-01-C	Electric Engineer
		Safety Engineer
Date: Friday, June 03, 2005		APPROVED

英华家电维修资料专用 QQ:505966338

11. Mechanical Of Cabinet Front Dis-Assembly



英华家电维修资料专用 QQ:505966338

12. BOM List

Location	Part No.	Description
	CMP774B2T13	CHASSIS FOR P774B3-2
	1C 503504 47	SCREW FOR CRT
	11C 112500	WIRE MOUNT
	11C6015 1	CRT SUPPORT
	11C6033 2	PCB SUPPORT
	19C 403 7	STEEL
	26C 800504 3H	BARCODE
	33C4020 Y A	S.C.CAP
	33C4610 A5 A	RING KEY
	33C4611 A5 A	POWER KNOB
	33C4612 1	POWER LENS
	33C4613 A6 A	LOGO COVER
	34C1159 A6 L	SWIVEL
	34C1160 A6 L	BASE
	40C70PH615 7A	ID LABEL
	41C 6861596A	QSG
	44C67B761511B	CARTON
	44C67B8 1	EPS CUSHION
	44C67B8 2	EPS CUSHION
	45C 76 28 RN	PE BAG FOR MANUAL
	45C 88 7 RN	Monitor PE BAG
	45C 88601	EPE COVER
	50C 500500	CABLE TIE
	50C 502 2	PLASTIC TIE
	50C 502 5	CABLE TIE
	51C 6 4	SILICON
	52C 1185	MIDDLE TAPE FOR CARTON
	52C 1185 1	BIG TAPE
	52C 1186	SMALL TAPE
	55C 100613	SOLDER BAR
	85C6027 1	Shield Case
	85C6028500	SHIELD CASE
	89C 71B8DYHJA	SIGNAL CABLE
	89C404A18N YH	POWER CORD WALL OUT FOR
AS1	95C205T 3006A	Wire Harness
	95C2070539	WIRE HARNESS
	95C2070554	WIRE
	B1C1035 10 47 CR3	SCREW
	D1C1140 8128 CR3	SCREW4.0X8
	Q1C 340 16 47 CR3	SCREW
	750A1697504JAL	0.45*90Ts DEGAUSSING CO
	C34C1158 A6 A	BACK COVER
	H70C7000615 1D	CD MANUAL
	N34C1157AA5 A	FRONT PANEL
	Q33C0013 A5 A	KEY PAD
	11C 115500	FBT CLIP
	AMP774B2T1	MAIN BOARD P774B3-2
	CRP774B2T	CRT BOARD P774B3-2
	1C 421 4128 CR3	SCREW
GND4	9C 203 8	BRASS PIN
	15C5640 1 A	B AL GND LUG
CN902	33C3074 1	2P PLUG
P402	33C3192 4	4P PLUG
P803	33C3278 7D	WAFER*PLUG

英华家电维修资料专用 QQ:505966338

CN903	33C3803 3	WAFER EH-E
	40C 581624 2B	CHASSIS LABEL
	55C 100611	SOLDER BAR
	55C 100613	SOLDER BAR
IC401	56C 573513	STV9118
IC101	56C1125580 A	NT6865UG-30124 42PIN
IC102	56C1133 13	24LC08 B/P EEPROM MICRO
Q907	57C2015 1A	2SB772P
Q909	57C2015 1A	2SB772P
PR901	61C 52 27 4G	PTCR 9OHM
R927	61C 20810464L	1W +-5% 100KOHM
R907	61C 20856164L	1W +-5% 560OHM
R447	61C 60212252T	CFR 1.2K OHM+-5% 1/6W
R704	61C152M10164L	2WS +-5% 100OHM
R929	61C152M22864L	2WS +-5% 0.22OHM
R446	61C152M56964L	2WS +-5% 5.6OHM
R911	61C152M82064L	2WS +-5% 82OHM
R912	61C152M82964L	2WS +-5% 8.2OHM
R456	61C153M47159L	3WS +-5% 470OHM
R939	61C212Y36452T	MGFR 360KOHM +-5% 1/2W
R940	61C212Y47452T	MGFR 470KOHM +-5% 1/2W
C900	63C107K105 US	1.0UF 275VAC
C418	63C210J4727FC	4700PF 1.6KV
C423	63C210J6842CV	0.68UF 250V
C419	64C 1404724CC	4700PF +-5% 630V
C422	64C100J225 59	2.2UF +-5% 100V
C919	65C 2K102 5B6921	1000PF 2KV
C960	65C305M3322B2	3300PF 250VAC/400VAC
C962	65C305M4722B2	4700PF +-20% 400VAC ACF
C963	65C305M4722B2	4700PF +-20% 400VAC ACF
C961	65C305M4722BH	Y2 4700PF +-20% 250VAC/
C907	67C 3015115P	150UF 450V
C432	67C 21522011K	22UF +-20% 200V
C931	67C 215221 9J	220UF +-20% 100V JAMICO
C482	67C 21547011J	47UF +-20% 200V JAMICON
C936	67C 305102 46371	1000UF +-20% 25V
C401	67C 309102 3	1000UF +-20% 16V
C603	67C 309102 3	1000UF +-20% 16V
C937	67C 309102 3	1000UF +-20% 16V
C605	67C 309222 3	2200UF +-20% 16V
C402	67C 309470 9	47UF +-20% 100V
CF418	71C 55 2 A	A FERRITE BEAD 6.5*5*1.7
DF901	71C 55 2 A	A FERRITE BEAD 6.5*5*1.7
DF902	71C 55 2 A	A FERRITE BEAD 6.5*5*1.7
DF903	71C 55 2 A	A FERRITE BEAD 6.5*5*1.7
DF904	71C 55 2 A	A FERRITE BEAD 6.5*5*1.7
DF922	71C 55 2 A	A FERRITE BEAD 6.5*5*1.7
DF925	71C 55 2 A	A FERRITE BEAD 6.5*5*1.7
FD404	71C 55 2 A	A FERRITE BEAD 6.5*5*1.7
FB904	71C 55503	FERRITE BEAD
	71C 100 2 S	CORE 8*16*12
	71C 100 8	FERRITE CORE 12*25*15
L901	73A 174 7 TG	LINE FILTER 25MH MIN
L405	73C 253 69 T	150UH +-10% FOR TDK
L906	73C 253 88 HB	CHOCK
L910	73C 259 4 H	CHOKE COIL

英华家电维修资料专用 QQ:505966338

VR902	75C 334303	CFVR 30KOHM +-20%
RY901	77C 260 5 4	RELAY
<SW101>	77C 602 1 CJ	TACT SWITCH TSVB-2
<SW102>	77C 602 1 CJ	TACT SWITCH TSVB-2
<SW103>	77C 602 1 CJ	TACT SWITCH TSVB-2
<SW104>	77C 602 1 CJ	TACT SWITCH TSVB-2
SW901	77C411A 2 CJ	MINI PUSH SWITCH
T402	79A 774 1 G	FBT
T403	79C 167124 H	DRIVER TRANSFORMER
T401	79C 167125 LS	DRIVER TRANSFORMER
T901	80AS774 2 TG	TRANSFORMER
LED2	81C 11500 GP	LED
X101	93C 2243A PT	CRYSTAL
D901	93C 52 9P52T	PS206
D902	93C 52 9P52T	PS206
D903	93C 52 9P52T	PS206
D904	93C 52 9P52T	PS206
D919	93C 6073F	31DF4-FC
D923	93C1002 2A	RK36
D404	93C104050052T	UF4004-LF
D922	93C30408AT	RG-4S
D925	93C30408AT	RG-4S
XGND	95C 90 23	JUMPER
AB	95C 201 59022	2" WIRE
SS1	95C205T 3007A	Wire Harness
H802	95C8013 14631 W	WIRE HARNESS
	B1C1040 12128 CR3	SCREW
	D1C1140 7128 CR3	SCREW 4X7(FOR AC)
	M1C1140 6128 CR3	SCREW
	705A774BC15 02	AC ASS'Y
	705A774BC8701A	CN901 ASS'Y
	705A773ZC84 1	F901 ASS'Y
	705A774BC56 2D	IC901 ASS'Y
	705A774BC5702D	Q420 ASS'Y
	705A774BC5702E	Q426 ASS'Y
	705A774BC5703B	Q911 ASS'Y
	705A774BC61 01	NR901 ASS'Y
	6C 31 4	BRASS
RV10	6C 31 4	BRASS
RV11	6C 31 4	BRASS
RV12	6C 31 4	BRASS
RV14	6C 31 4	BRASS
RV15	6C 31 4	BRASS
RV18	6C 31 4	BRASS
RV19	6C 31 4	BRASS
RV21	6C 31 4	BRASS
RV22	6C 31 4	BRASS
RV23	6C 31 4	BRASS
RV31	6C 31 4	BRASS
RV32	6C 31 4	BRASS
RV33	6C 31 4	BRASS
RV34	6C 31 4	BRASS
RV35	6C 31 4	BRASS
RV9	6C 31 4	BRASS
RV1	6C 31500	EYELET
RV2	6C 31500	EYELET

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RV3	6C 31500	EYELET
RV4	6C 31500	EYELET
RV13	6C 31501	BRASS
RV38	6C 31501	BRASS
RV5	6C 31501	BRASS
RV6	6C 31501	BRASS
RV16	6C 31502	BRASS
RV17	6C 31502	BRASS
RV24	6C 31502	BRASS
RV25	6C 31502	BRASS
RV26	6C 31502	BRASS
RV28	6C 31502	BRASS
RV7	6C 31502	BRASS
RV8	6C 31502	BRASS
	715C1316 7 S1	CMPC BOARD PCB
C450	95C 90 23	JUMPER
D914	95C 90 23	JUMPER
J001	95C 90 23	JUMPER
J002	95C 90 23	JUMPER
J006	95C 90 23	JUMPER
J007	95C 90 23	JUMPER
J009	95C 90 23	JUMPER
J010	95C 90 23	JUMPER
J011	95C 90 23	JUMPER
J013	95C 90 23	JUMPER
J016	95C 90 23	JUMPER
J017	95C 90 23	JUMPER
J020	95C 90 23	JUMPER
J021	95C 90 23	JUMPER
J022	95C 90 23	JUMPER
J023	95C 90 23	JUMPER
J024	95C 90 23	JUMPER
J025	95C 90 23	JUMPER
J026	95C 90 23	JUMPER
J027	95C 90 23	JUMPER
J028	95C 90 23	JUMPER
J029	95C 90 23	JUMPER
J030	95C 90 23	JUMPER
J031	95C 90 23	JUMPER
J032	95C 90 23	JUMPER
J033	95C 90 23	JUMPER
J034	95C 90 23	JUMPER
J036	95C 90 23	JUMPER
J039	95C 90 23	JUMPER
J040	95C 90 23	JUMPER
J042	95C 90 23	JUMPER
J044	95C 90 23	JUMPER
J047	95C 90 23	JUMPER
J048	95C 90 23	JUMPER
J049	95C 90 23	JUMPER
J051	95C 90 23	JUMPER
J052	95C 90 23	JUMPER
J053	95C 90 23	JUMPER
J055	95C 90 23	JUMPER
J056	95C 90 23	JUMPER
J057	95C 90 23	JUMPER

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J058	95C 90 23	JUMPER
J060	95C 90 23	JUMPER
J061	95C 90 23	JUMPER
J062	95C 90 23	JUMPER
J063	95C 90 23	JUMPER
J064	95C 90 23	JUMPER
J065	95C 90 23	JUMPER
J066	95C 90 23	JUMPER
J067	95C 90 23	JUMPER
J068	95C 90 23	JUMPER
J069	95C 90 23	JUMPER
J070	95C 90 23	JUMPER
J071	95C 90 23	JUMPER
J072	95C 90 23	JUMPER
J073	95C 90 23	JUMPER
J074	95C 90 23	JUMPER
J076	95C 90 23	JUMPER
J077	95C 90 23	JUMPER
J078	95C 90 23	JUMPER
J079	95C 90 23	JUMPER
J080	95C 90 23	JUMPER
J081	95C 90 23	JUMPER
J082	95C 90 23	JUMPER
J083	95C 90 23	JUMPER
J084	95C 90 23	JUMPER
J086	95C 90 23	JUMPER
J087	95C 90 23	JUMPER
J088	95C 90 23	JUMPER
J089	95C 90 23	JUMPER
J090	95C 90 23	JUMPER
J091	95C 90 23	JUMPER
J092	95C 90 23	JUMPER
R123	95C 90 23	JUMPER
R914	95C 90 23	JUMPER
R981	95C 90 23	JUMPER
ZD402	95C 90 23	JUMPER
NR601	61C 58450 WT	45OHM NTCR FOR THIMKING
R413	61C 17210052T	CFR 10OHM+-5% 1/4W
R421	61C 17210052T	CFR 10OHM+-5% 1/4W
R425	61C 17210152T	CFR 100OHM+-5% 1/4W
R909	61C 17210152T	CFR 100OHM+-5% 1/4W
R613	61C 17210252T	CFR 1KOHM +-5% 1/4W
R721	61C 17210252T	CFR 1KOHM +-5% 1/4W
R958	61C 17210252T	CFR 1KOHM +-5% 1/4W
R419	61C 17210452T	CFR100K OHM +-5% 1/4W
R471	61C 17210452T	CFR100K OHM +-5% 1/4W
R749	61C 17210452T	CFR100K OHM +-5% 1/4W
R915	61C 17210452T	CFR100K OHM +-5% 1/4W
R402	61C 17212252T	CFR 1.2K OHM +-5% 1/4W
R904	61C 17212252T	CFR 1.2K OHM +-5% 1/4W
R603	61C 17212352T	CFR 12K OHM +-5% 1/4W
R972	61C 17212352T	CFR 12K OHM +-5% 1/4W
R610	61C 17212452T	CFR 120K OHM +-5% 1/4W
R611	61C 17212452T	CFR 120K OHM +-5% 1/4W
R615	61C 17212452T	CFR 120K OHM +-5% 1/4W
R609	61C 17213452T	CFR 130K OHM +-5% 1/4W

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R703	61C 17215152T	CFR 150 OHM +-5% 1/4W
R968	61C 17216452T	CFR 160KOHM +-5% 1/4W
R430	61C 17218452T	CFR 180KOHM+-5% 1/4W
R994	61C 17220352T	CFR 20KOHM+-5% 1/4W
R463	61C 17220552T	CFR 2MOHM+-5% 1/4W
R702	61C 17220552T	CFR 2MOHM+-5% 1/4W
R906	61C 17222052T	CFR 22OHM+-5% 1/4W
R980	61C 17222152T	CFR 220OHM+-5% 1/4W
R434	61C 17222252T	CFR 2.2KOHM+-5% 1/4W
R612	61C 17222252T	CFR 2.2KOHM+-5% 1/4W
R476	61C 17222452T	CFR 220KOHM+-5% 1/4W
R478	61C 17222452T	CFR 220KOHM+-5% 1/4W
R621	61C 17227352T	CFR 27KOHM+-5% 1/4W
R966	61C 17230252T	CFR 3KOHM+-5% 1/4W
R444	61C 17233252T	CFR 3.3KOHM+-5% 1/4W
R487	61C 17233252T	CFR 3.3KOHM+-5% 1/4W
R962	61C 17247052T	CFR 47 OHM +-5% 1/4W
R618	61C 17247152T	CFR 470OHM +-5% 1/4W
R951	61C 17247152T	CFR 470OHM +-5% 1/4W
R460	61C 17247252T	CFR 4.7K OHM +-5% 1/4W
R486	61C 17247252T	CFR 4.7K OHM +-5% 1/4W
R462	61C 17247352T	CFR 47K OHM +-5% 1/4W
R960	61C 17247352T	CFR 47K OHM +-5% 1/4W
R965	61C 17247952T	CFR 4.7 OHM +-5% 1/4W
R941	61C 17251152T	CFR 510 OHM +-5% 1/4W
R720	61C 17256252T	CFR 5.6K OHM +-5% 1/4W
R431	61C 17262252T	CFR 6.2K OHM +-5% 1/4W
R930	61C 17268152T	CFR 680 OHM +-5% 1/4W
R917	61C 17268352T	CFR 68K OHM +-5% 1/4W
R416	61C 17275352T	CFR 75K OHM +-5% 1/4W
R969	61C 17275352T	CFR 75K OHM +-5% 1/4W
R440	61C 20033252T	MFR 3.3KOHM+-1% 1/4W
R604	61C 20056252T	MFR 5.6KOHM+-1% 1/4W
R436	61C 21010252T	MFR 1K OHM +- 1% 1/6W
R602	61C 21036252T	MFR 3.6K OHM +- 1% 1/6W
R412	61C 21051252T	MFR 5.1KOHM +-1% 1/6W
R119	61C 60210052T	CFR 10 OHM +-5% 1/6W
R120	61C 60210052T	CFR 10 OHM +-5% 1/6W
R103	61C 60210152T	CFR 100 OHM+-5% 1/6W
R105	61C 60210152T	CFR 100 OHM+-5% 1/6W
R117	61C 60210152T	CFR 100 OHM+-5% 1/6W
R132	61C 60210152T	CFR 100 OHM+-5% 1/6W
R143	61C 60210152T	CFR 100 OHM+-5% 1/6W
R172	61C 60210152T	CFR 100 OHM+-5% 1/6W
R403	61C 60210152T	CFR 100 OHM+-5% 1/6W
R404	61C 60210152T	CFR 100 OHM+-5% 1/6W
R406	61C 60210152T	CFR 100 OHM+-5% 1/6W
R422	61C 60210152T	CFR 100 OHM+-5% 1/6W
R101	61C 60210252T	CFR 1K OHM+-5% 1/6W
R131	61C 60210252T	CFR 1K OHM+-5% 1/6W
R138	61C 60210252T	CFR 1K OHM+-5% 1/6W
R433	61C 60210252T	CFR 1K OHM+-5% 1/6W
R100	61C 60210352T	CFR 10K OHM+-5% 1/6W
R126	61C 60210352T	CFR 10K OHM+-5% 1/6W
R130	61C 60210352T	CFR 10K OHM+-5% 1/6W
R134	61C 60210352T	CFR 10K OHM+-5% 1/6W

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R432	61C 60210352T	CFR 10K OHM+-5% 1/6W
R921	61C 60210352T	CFR 10K OHM+-5% 1/6W
R933	61C 60210352T	CFR 10K OHM+-5% 1/6W
R952	61C 60210352T	CFR 10K OHM+-5% 1/6W
R953	61C 60210352T	CFR 10K OHM+-5% 1/6W
R959	61C 60210352T	CFR 10K OHM+-5% 1/6W
R982	61C 60210352T	CFR 10K OHM+-5% 1/6W
R983	61C 60210352T	CFR 10K OHM+-5% 1/6W
R490	61C 60211352T	CFR 11K OHM+-5% 1/6W
R616	61C 60215352T	CFR 15K OHM+-5% 1/6W
R128	61C 60216352T	CFR 16K OHM +-5% 1/6W
R601	61C 60220152T	CFR 200 OHM+-5% 1/6W
R418	61C 60220352T	CFR 20K OHM+-5% 1/6W
R443	61C 60220352T	CFR 20K OHM+-5% 1/6W
R484	61C 60220352T	CFR 20K OHM+-5% 1/6W
R614	61C 60222052T	CFR 22 OHM+-5% 1/6W
R106	61C 60222252T	CFR 2.2K OHM +-5% 1/6W
R107	61C 60222252T	CFR 2.2K OHM +-5% 1/6W
R108	61C 60222252T	CFR 2.2K OHM +-5% 1/6W
R109	61C 60222252T	CFR 2.2K OHM +-5% 1/6W
R135	61C 60222252T	CFR 2.2K OHM +-5% 1/6W
R156	61C 60222252T	CFR 2.2K OHM +-5% 1/6W
R157	61C 60222252T	CFR 2.2K OHM +-5% 1/6W
R127	61C 60222352T	CFR 22K OHM+-5% 1/6W
R608	61C 60222352T	CFR 22K OHM+-5% 1/6W
R405	61C 60227152T	CFR 270 OHM +-5% 1/6W
R751	61C 60227152T	CFR 270 OHM +-5% 1/6W
R181	61C 60227252T	CFR 2.7K OHM+-5% 1/6W
R414	61C 60227252T	CFR 2.7K OHM+-5% 1/6W
R967	61C 60227352T	CFR 27K OHM+-5% 1/6W
R706	61C 60233152T	CFR 330 OHM+-5% 1/6W
R417	61C 60236352T	CFR 36K OHM+-5% 1/6W
R125	61C 60247052T	CFR 47 OHM +-5% 1/6W
R129	61C 60247052T	CFR 47 OHM +-5% 1/6W
R115	61C 60247152T	CFR 470 OHM +-5% 1/6W
R116	61C 60247152T	CFR 470 OHM +-5% 1/6W
R121	61C 60247152T	CFR 470 OHM +-5% 1/6W
R112	61C 60247252T	CFR 4.7K OHM+-5% 1/6W
R118	61C 60247252T	CFR 4.7K OHM+-5% 1/6W
R124	61C 60247252T	CFR 4.7K OHM+-5% 1/6W
R133	61C 60247252T	CFR 4.7K OHM+-5% 1/6W
R136	61C 60247252T	CFR 4.7K OHM+-5% 1/6W
R153	61C 60247252T	CFR 4.7K OHM+-5% 1/6W
R182	61C 60247252T	CFR 4.7K OHM+-5% 1/6W
RN102	61C 60247252T	CFR 4.7K OHM+-5% 1/6W
R957	61C 60247352T	CFR 47K OHM+-5% 1/6W
R905	61C 60251252T	CFR 5.1K OHM+-5% 1/6W
R420	61C 60251352T	CFR 51K OHM +-5% 1/6W
R411	61C 60256252T	CFR 5.6KOHM+-5% 1/6W
R713	61C 60256252T	CFR 5.6KOHM+-5% 1/6W
R449	61C 60262252T	CFR 6.2K OHM +-5% 1/6W
R617	61C 60275352T	CFR 75K OHM +-5% 1/6W
R748	61C 60282252T	CFR 8.2K OHM +-5% 1/6W
R902	61C 60282252T	CFR 8.2K OHM +-5% 1/6W
R910	61C 60291352T	CFR 91K OHM +-5% 1/6W
R410	61C175L10052T	CFR 10 OHM +-5% 1/2W

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R401	61C175L10452T	CFR 100K OHM +-5% 1/2W
R901	61C175L10552T	CFR 1M OHM +-5% 1/2W
R900	61C175L10652T	CFR 10M OHM +-5% 1/2W
R605	61C175L10952T	CFR 1 OHM +-5% 1/2W
R913	61C175L10952T	CFR 1 OHM +-5% 1/2W
R741	61C175L12452T	CFR 120K OHM +-5% 1/2W
R740	61C175L56352T	CFR 56K OHM +-5% 1/2W
R908	61C175L75952T	CFR 7.5 OHM +-5% 1/2W
R441	61C175L82352T	CFR 82K OHM +-5% 1/2W
R429	61C212Y10052T	10 OHM +-5% 1/2W
R725	61C212Y24452T	MGFR 240K OHM +-5% 1/2W
R701	61C212Y62152T	MGFR 620 OHM +-5% 1/2W
FB402	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0
FB403	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0
FB901	71C 55 19 T	FERRITE BEAD 9X3.5X0.8
ZD903	93C 39 5852T	ZD HZ24-2/HITACHI
ZD902	93C 39 7352T	HZ6B1-E
ZD101	93C 3951352T	HZ6C2/HITACHI
ZD102	93C 3951352T	HZ6C2/HITACHI
ZD901	93C 3951652T	TZX5V1B
ZD401	93C 3952952T	HZ2B2-E
ZD702	93C 3960052T	HZ4A3-E
D601	93C 5247T52T	1N4004
D406	93C 6021P52T	PS156R
D407	93C 6021P52T	PS156R
D910	93C 6021P52T	PS156R
D463	93C 6026W52T	FR107
D474	93C 6026W52T	FR107
D706	93C 6044T52T	RECTIFIER DIODE FR157S
D401	93C 64 1152T	1N4148
D402	93C 64 1152T	1N4148
D409	93C 64 1152T	1N4148
D410	93C 64 1152T	1N4148
D411	93C 64 1152T	1N4148
D413	93C 64 1152T	1N4148
D420	93C 64 1152T	1N4148
D450	93C 64 1152T	1N4148
D602	93C 64 1152T	1N4148
D603	93C 64 1152T	1N4148
D604	93C 64 1152T	1N4148
D912	93C 64 1152T	1N4148
D916	93C 64 1152T	1N4148
D926	93C 64 1152T	1N4148
D939	93C 64 1152T	1N4148
R726	93C 64 1152T	1N4148
D911	93C 6450152T	SWITCHING DIODE BAV21
D400	93C1002 1W52T	1N5817
D405	93C1002 1W52T	1N5817
D929	93C1040 252T	UF4004
D403	93C104050052T	UF4004-LF
D740	93C104050052T	UF4004-LF
Q411	57C 419503 T	3DG945P
Q423	57C 419503 T	3DG945P
Q903	57C 419503 T	3DG945P
Q908	57C 419503 T	3DG945P
Q910	57C 419503 T	3DG945P

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Q912	57C 419503 T	3DG945P
Q913	57C 419503 T	3DG945P
Q404	57C 420502 T	3CG733P
Q405	57C 420502 T	3CG733P
Q905	57C 420502 T	3CG733P
Q920	57C 420502 T	3CG733P
Q410	57C 446501 T	2SC2120Y
Q902	57C 446501 T	2SC2120Y
Q904	57C 446501 T	2SC2120Y
Q742	57C 493 11 T	HBF422
Q705	57C 498501 T	BF423
Q402	57C 530503 T	2SD1207T
C946	63C212J1042AT	MPE 0.1UF/250V +-5%
C435	64C 44J1031AT	.01UF +-5% 100V
C447	64C 44J1031AT	.01UF +-5% 100V
C943	64C 44J1521AT	1500PF/100V
C415	64C 44J4721AT	4700PF 100V PEI
C449	64C 44J4731AT	0.047UF 100V PEI
C710	64C176J123 1T	12nF 100V MPE
C602	64C178J103 1T	CL21X 0.01UF 100V +-5%
C601	64C178J152 1T	"1500PF 100V +-5%"
C417	64C178J224 0T	0.22UF 63V.+-5%
C608	64C178J224 1T	C121X 0.22UF 100V +-5%
C414	64C178J474 0T	CL21X. 0.47UF 63V +-5%
C611	64C178J474 0T	CL21X. 0.47UF 63V +-5%
C409	64C700J1020AT	PEN 0.001UF/50V +-5%
C945	64C700J1040AT	0.1uF/50V +-5%
C613	64C701J1540AT	0.15UF 50V +-5%
C913	65C 1K101 5T6921	100PF/1KV Y5P+-10%
C917	65C 1K221 5T6921	220PF/1KV Y5P+-10%
C480	65C 1K470 5T6921	47P/1KV
C918	65C 2K221 5T6921	220PF 2000V
C488	65C 2K680 1T6921	68PF 2KV
C412	65C 44210113T	100PF +-5% NPO 50V
C446	65C 44210113T	100PF +-5% NPO 50V
C614	65C 44210113T	100PF +-5% NPO 50V
C107	65C 44222013T	22PF +-5% NPO 50V
C108	65C 44222013T	22PF +-5% NPO 50V
C131	65C 44233013T	33PF +-5% NPO 50V
C105	65C 444102 5T	1000 PF 10% 50V Y5P
C106	65C 444102 5T	1000 PF 10% 50V Y5P
C130	65C 444102 5T	1000 PF 10% 50V Y5P
C411	65C 444103 5T	0.01 UF 10% 50V Y5P
C429	65C 444103 5T	0.01 UF 10% 50V Y5P
C463	65C 444103 5T	0.01 UF 10% 50V Y5P
C741	65C 444331 5T	330PF 10% 50V
C920	65C 444471 5T	470PF 10% 50V Y5P
C612	65C 44447113T	470PF +-10% Z5P 50V
C607	65C 444472 5T	4700 PF 10% 50V Y5P
C101	65C 450104 3T	0.1UF 50V Y5V
C103	65C 450104 3T	0.1UF 50V Y5V
C111	65C 450104 3T	0.1UF 50V Y5V
C403	65C 450104 3T	0.1UF 50V Y5V
C406	65C 450104 3T	0.1UF 50V Y5V
C407	65C 450104 3T	0.1UF 50V Y5V
C410	65C 450104 3T	0.1UF 50V Y5V

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C413	65C 450104 3T	0.1UF 50V Y5V
C416	65C 450104 3T	0.1UF 50V Y5V
C444	65C 450104 3T	0.1UF 50V Y5V
C460	65C 450104 3T	0.1UF 50V Y5V
C703	65C 450104 3T	0.1UF 50V Y5V
C908	65C 450104 3T	0.1UF 50V Y5V
C912	65C 450104 3T	0.1UF 50V Y5V
C941	65C 450104 3T	0.1UF 50V Y5V
C921	65C101K104 2T	0.1 UF 100V +-10% XTR
C720	65C517K102 2T6921	1000PF 500V +-10% Y5P
C430	65C517K471 1T6921	470PF/500 Z5F +-10%
C421	65C517K472 1T6921	4700PF/500V
C740	65C517M103 3T6921	10NF 500V
C404	67C 305100 7T	10UF +-20% 50V
C944	67C 305100 7T	10UF +-20% 50V
C910	67C 305220 7T	22UF +-20% 50V
C713	67C 30522912T	2.2UF +-20% 250V
C930	67C 305471 3T6371	470UF +-20% 16V
C939	67C 305471 3T6371	470UF +-20% 16V
C743	67C 309100 7T	10UF +-20% 50V
C104	67C 309101 3T	100UF +-20% 16V
C113	67C 309101 3T	100UF +-20% 16V
C114	67C 309109 7T	1.0UF +-20% 50V
C115	67C 309109 7T	1.0UF +-20% 50V
C947	67C 309220 3T	22UF +-20% 16V
C433	67C 309220 9T	22UF +-20% 100V
C434	67C 309229 7T	2.2UF +-20% 50V
C110	67C 309330 3T	33UF +-20% 16V
C100	67C 309470 3T	47UF +-20% 16V
C102	67C 309470 3T	47UF +-20% 16V
C146	67C 309470 3T	47UF +-20% 16V
C443	67C 309470 3T	47UF +-20% 16V
C610	67C 309470 3T	47UF +-20% 16V
C609	67C 309470 7T	47UF +-20% 50V
C405	67C 309471 3T	470UF +-20% 16V
C483	67C 309479 3T	4.7UF +-20% 16V
C437	67C 309479 7T	4.7UF +-20% 50V
ZD103	93C 3951352T	HZ6C2/HITACHI
ZD104	93C 3951352T	HZ6C2/HITACHI
	ARP774B2T	CRT BOARD P774B3-2
G2	9C 203 8	BRASS PIN
P801	33C3278 6D	WAFER
P802	33C327814D	WAFER& PLUG
	40C 45762412B	LABEL
FB802	53C 40 8	DSS6NC52A220Q55B
FB803	53C 40 8	DSS6NC52A220Q55B
FB804	53C 40 8	DSS6NC52A220Q55B
IC801	56C 366509	LM1246DKA
IC803	56C 539 6	LM2480NA BY NS
R879	61C175L10152T	CFR 100 OHM +-5% 1/2W
C843	65C 1K101 5T6921	100PF/1KV Y5P+-10%
C828	65C 2M103 3A6921	10000PF 2KV
C874	65C 2M1033FB6921	10000PF -20%~+18% 2KV
C829	67C 305470 9	47UF +-20% 100V
RF879	71C 55 2 A	A FERRITE BEAD 6.5*5*1.7
L804	71C 55 19 T	FERRITE BEAD 9X3.5X0.8

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FB809	71C 5519R	FERRITE BEAD 9X3.5X0.8
	87C3504 DL	CRT SOCKET(QQ FOCUS)
	705A774BR56 01	IC802 ASS'Y
	6C 31 4	BRASS
	715C 992 1 D1	CRPC BOARD PCB
C815	95C 90 23	JUMPER
FB808	95C 90 23	JUMPER
J801	95C 90 23	JUMPER
J802	95C 90 23	JUMPER
J803	95C 90 23	JUMPER
J804	95C 90 23	JUMPER
J807	95C 90 23	JUMPER
J809	95C 90 23	JUMPER
J810	95C 90 23	JUMPER
J811	95C 90 23	JUMPER
J815	95C 90 23	JUMPER
J817	95C 90 23	JUMPER
J818	95C 90 23	JUMPER
J819	95C 90 23	JUMPER
J820	95C 90 23	JUMPER
J821	95C 90 23	JUMPER
J822	95C 90 23	JUMPER
J823	95C 90 23	JUMPER
J824	95C 90 23	JUMPER
R832	95C 90 23	JUMPER
R848	95C 90 23	JUMPER
R860	95C 90 23	JUMPER
R861	95C 90 23	JUMPER
R862	95C 90 23	JUMPER
R857	61C 17210552T	CFR 1MOHM +-5% 1/4W
R858	61C 17210552T	CFR 1MOHM +-5% 1/4W
R859	61C 17210552T	CFR 1MOHM +-5% 1/4W
FB805	61C 17218152T	CFR 180 OHM +-5% 1/4W
L801	61C 17247052T	CFR 47 OHM +-5% 1/4W
L802	61C 17247052T	CFR 47 OHM +-5% 1/4W
L803	61C 17247052T	CFR 47 OHM +-5% 1/4W
R854	61C 17251052T	CFR 51OHM +-5% 1/4W
R855	61C 17251052T	CFR 51OHM +-5% 1/4W
R856	61C 17251052T	CFR 51OHM +-5% 1/4W
R814	61C 60210152T	CFR 100 OHM+-5% 1/6W
R815	61C 60210152T	CFR 100 OHM+-5% 1/6W
R818	61C 60210252T	CFR 1K OHM+-5% 1/6W
R823	61C 60210252T	CFR 1K OHM+-5% 1/6W
R824	61C 60210252T	CFR 1K OHM+-5% 1/6W
R825	61C 60210252T	CFR 1K OHM+-5% 1/6W
R826	61C 60210352T	CFR 10K OHM+-5% 1/6W
R835	61C 60210352T	CFR 10K OHM+-5% 1/6W
R804	61C 60233052T	CFR 33 OHM +-5% 1/6W
R805	61C 60233052T	CFR 33 OHM +-5% 1/6W
R806	61C 60233052T	CFR 33 OHM +-5% 1/6W
R830	61C 60262252T	CFR 6.2K OHM +-5% 1/6W
R820	61C 60268252T	CFR 6.8K OHM+-5% 1/6W
R827	61C 60268252T	CFR 6.8K OHM+-5% 1/6W
R801	61C 60275052T	CFR 75 OHM+-5% 1/6W
R802	61C 60275052T	CFR 75 OHM+-5% 1/6W
R803	61C 60275052T	CFR 75 OHM+-5% 1/6W

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R821	61C 60275252T	CFR 7.5K OHM +-5% 1/6W
R872	61C175L56052T	CFR 56 OHM +-5% 1/2W
R873	61C175L56052T	CFR 56 OHM +-5% 1/2W
R874	61C175L56052T	CFR 56 OHM +-5% 1/2W
R880	61C175L56452T	CFR 560K OHM +-5% 1/2W
FB801	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0
FB850	71C 55 19 T	FERRITE BEAD 9X3.5X0.8
FB852	71C 55 19 T	FERRITE BEAD 9X3.5X0.8
L850	73C 5433810T	0.33uH +-10%
L851	73C 5433810T	0.33uH +-10%
L852	73C 5433810T	0.33uH +-10%
D863	93C 6021T52T	FR155
D801	93C 64 1152T	1N4148
D802	93C 64 1152T	1N4148
D803	93C 64 1152T	1N4148
D804	93C 64 1152T	1N4148
D805	93C 64 1152T	1N4148
D806	93C 64 1152T	1N4148
D856	93C 6431P52T	BAV20
D857	93C 6431P52T	BAV20
D858	93C 6431P52T	BAV20
D850	93C 6450152T	SWITCHING DIODE BAV21
D851	93C 6450152T	SWITCHING DIODE BAV21
D852	93C 6450152T	SWITCHING DIODE BAV21
D853	93C 6450152T	SWITCHING DIODE BAV21
D854	93C 6450152T	SWITCHING DIODE BAV21
D855	93C 6450152T	SWITCHING DIODE BAV21
C801	64C178J104 0T	CL21X0.1UF 63V +-5%
C802	64C178J104 0T	CL21X0.1UF 63V +-5%
C803	64C178J104 0T	CL21X0.1UF 63V +-5%
C811	64C700J3330AT	0.033UF 63V +-5%
C870	65C 1K102 5T6921	1NF/1KV Y5P+-10%
C808	65C 44210013T	10PF +-5% NPO 50V
C836	65C 44210013T	10PF +-5% NPO 50V
C837	65C 44210013T	10PF +-5% NPO 50V
C838	65C 44210013T	10PF +-5% NPO 50V
C813	65C 44210113T	100PF +-5% NPO 50V
C876	65C 44210113T	100PF +-5% NPO 50V
C877	65C 44210113T	100PF +-5% NPO 50V
C817	65C 44212013T	12PF J NPO 50V
C818	65C 44212013T	12PF J NPO 50V
C819	65C 44212013T	12PF J NPO 50V
C835	65C 444152 5T	1500PF 10% Y5P 50V
C804	65C 450104 3T	0.1UF 50V Y5V
C821	65C 450104 3T	0.1UF 50V Y5V
C823	65C 450104 3T	0.1UF 50V Y5V
C824	65C 450104 3T	0.1UF 50V Y5V
C833	65C 450104 3T	0.1UF 50V Y5V
C830	65C251K104 2T	0.1UF 250V
C856	65C251K104 2T	0.1UF 250V
C857	65C251K104 2T	0.1UF 250V
C858	65C251K104 2T	0.1UF 250V
C873	65C517K102 2T6921	1000PF 500V +-10% Y5P
C840	67C 70109 9T	1UF +-20% 100V
C853	67C 70109 9T	1UF +-20% 100V
C854	67C 70109 9T	1UF +-20% 100V

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C855	67C 70109 9T	1UF +-20% 100V
C864	67C 70109 9T	1UF +-20% 100V
C867	67C 70109 9T	1UF +-20% 100V
C810	67C 305470 3T	47UF +-20% 16V
C826	67C 305470 3T	47UF +-20% 16V
C805	67C 309101 3T	100UF +-20% 16V
C871	67C 309101 3T	100UF +-20% 16V
C806	67C 309109 7T	1.0UF +-20% 50V
C832	67C 309109 9T	1UF +-20% 100V
C809	67C 309339 7T	3.3UF +-20% 50V
IC802	56C 551524	LM2470TA
	90C6026 11	HEAT SINK
	M1C1730 8128 CR3	SCREW M3x8
	Q2C6009 1	SCREW NUT
	15C5643503	REAR BRACKET
	B1C1140 6128 CR3	SCREW
	87C 501 6	RECEPTACLES
CN901	95C 800 2 2	WIRE
	96C 29 6	H.S. TUBING DIA.4.0MM
	750C5X115AV	CPT 17" RF 0.18 P2 HB C
R715	61C 17236352T	CFR 36K OHM +-5% 1/4W
R607	61C 20811964L	1W +-5% 1.1OHM
R426	61C153M33059L	3WS +-5% 33OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2443CR	0.24UF/400V
C426	63C210J2742CR	0.27UF/250V
L401	73C 147539 H	LINEARITY COIL
TP404	95C201F 50162	16" PULSE
	705A774BC5701B W	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706505	2SC5929
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5X115AV	CPT 17" RF 0.18 P2 HB C
R715	61C 17236352T	CFR 36K OHM +-5% 1/4W
R607	61C 20811964L	1W +-5% 1.1OHM
R426	61C153M39059L	3WS +-5% 39OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2443CR	0.24UF/400V
C426	63C210J2742CR	0.27UF/250V
L401	73C 147539 H	LINEARITY COIL
TP404	95C201F 50162	16" PULSE
	705A774BC5701B	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD

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Q403	57C 706510	FJAF6812TU
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5X115AV	CPT 17" RF 0.18 P2 HB C
R715	61C 17236352T	CFR 36K OHM +-5% 1/4W
R607	61C 20811964L	1W +-5% 1.1OHM
R426	61C153M33059L	3WS +-5% 33OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2443CR	0.24UF/400V
C426	63C210J2742CR	0.27UF/250V
C450	65C 1K151 5T6921	150PF 1KV Y5P +-10%
C480	65C 1K470 5T6921	47P/1KV
L401	73C 147539 H	LINEARITY COIL
TP404	95C201M 50142	14"PULSE
	705A774BC5701B W	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706505	2SC5929
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5X115AV	CPT 17" RF 0.18 P2 HB C
R715	61C 17236352T	CFR 36K OHM +-5% 1/4W
R607	61C 20811964L	1W +-5% 1.1OHM
R426	61C153M39059L	3WS +-5% 39OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2443CR	0.24UF/400V
C426	63C210J2742CR	0.27UF/250V
C450	65C 1K151 5T6921	150PF 1KV Y5P +-10%
C480	65C 1K470 5T6921	47P/1KV
L401	73C 147539 H	LINEARITY COIL
TP404	95C201M 50142	14"PULSE
	705A774BC5701B	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706510	FJAF6812TU
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5X823AV	LPD-HF 17" RF TCO 0.18

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R715	61C 17236352T	CFR 36K OHM +-5% 1/4W
R607	61C 20812964L	1W +-5% 1.2OHM
R426	61C153M27059L	MOFR 27 OHM +-5% 3W
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L22152T	CFR 220 OHM +-5% 1/2W
C425	63C210J2243CR	0.22UF 400V
C426	63C210J2742CR	0.27UF/250V
L401	73C 147539 H	LINEARITY COIL
TP404	95C201F 50162	16" PULSE
	705A774BC5701B W	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706505	2SC5929
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5X823AV	LPD-HF 17" RF TCO 0.18
R715	61C 17236352T	CFR 36K OHM +-5% 1/4W
R607	61C 20812964L	1W +-5% 1.2OHM
R426	61C153M27059L	MOFR 27 OHM +-5% 3W
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L22152T	CFR 220 OHM +-5% 1/2W
C425	63C210J2243CR	0.22UF 400V
C426	63C210J2742CR	0.27UF/250V
C450	65C 1K470 5T6921	47P/1KV
C480	65C 1K470 5T6921	47P/1KV
L401	73C 147539 H	LINEARITY COIL
TP404	95C201M 50142	14"PULSE
	705A774BC5701B W	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706505	2SC5929
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5C15EAV	CPT 17" RF TCO BT CRT
R715	61C 17239352T	CFR 39K OHM +-5% 1/4W
R607	61C 20810964L	1W +-5% 1OHM
R426	61C153M33059L	3WS +-5% 33OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2443CR	0.24UF/400V
C426	63C210J2742CR	0.27UF/250V
L401	73C 147539 H	LINEARITY COIL
TP404	95C201F 50162	16" PULSE
	705A774BC5701B W	Q403/Q406/D408/IC601 AS

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	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706505	2SC5929
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5C15EAV	CPT 17" RF TCO BT CRT
R715	61C 17239352T	CFR 39K OHM +-5% 1/4W
R607	61C 20810964L	1W +-5% 1OHM
R426	61C153M39059L	3WS +-5% 39OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2443CR	0.24UF/400V
C426	63C210J2742CR	0.27UF/250V
L401	73C 147539 H	LINEARITY COIL
TP404	95C201F 50162	16" PULSE
	705A774BC5701B	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706510	FJAF6812TU
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5C15EAV	CPT 17" RF TCO BT CRT
R715	61C 17239352T	CFR 39K OHM +-5% 1/4W
R607	61C 20810964L	1W +-5% 1OHM
R426	61C153M33059L	3WS +-5% 33OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2443CR	0.24UF/400V
C426	63C210J2742CR	0.27UF/250V
C450	65C 1K151 5T6921	150PF 1KV Y5P +-10%
C480	65C 1K470 5T6921	47P/1KV
L401	73C 147539 H	LINEARITY COIL
TP404	95C201M 50142	14"PULSE
	705A774BC5701B W	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706505	2SC5929
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10

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	M1C1730 12128 CR3	SCREW
	750C5C15EAV	CPT 17" RF TCO BT CRT
R715	61C 17239352T	CFR 39K OHM +-5% 1/4W
R607	61C 20810964L	1W +-5% 1OHM
R426	61C153M39059L	3WS +-5% 39OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2443CR	0.24UF/400V
C426	63C210J2742CR	0.27UF/250V
C450	65C 1K151 5T6921	150PF 1KV Y5P +-10%
C480	65C 1K470 5T6921	47P/1KV
L401	73C 147539 H	LINEARITY COIL
TP404	95C201M 50142	14"PULSE
	705A774BC5701B	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706510	FJAF6812TU
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5C431AV	LG CRT+BC DY
R715	61C 17239352T	CFR 39K OHM +-5% 1/4W
R607	61C 20811964L	1W +-5% 1.1OHM
R426	61C153M33059L	3WS +-5% 33OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2243CR	0.22UF 400V
C426	63C210J2442CR	0.24UF 250V
L401	73C 147539 HA	LINEARITY COIL
TP404	95C201F 50162	16" PULSE
	705A774BC5701B W	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706505	2SC5929
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5C431AV	LG CRT+BC DY
R715	61C 17239352T	CFR 39K OHM +-5% 1/4W
R607	61C 20811964L	1W +-5% 1.1OHM
R426	61C153M33059L	3WS +-5% 33OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2243CR	0.22UF 400V
C426	63C210J2442CR	0.24UF 250V
C450	65C 1K151 5T6921	150PF 1KV Y5P +-10%

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C480	65C 1K470 5T6921	47P/1KV
L401	73C 147539 HA	LINEARITY COIL
TP404	95C201M 50142	14"PULSE
	705A774BC5701B W	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706505	2SC5929
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
R715	61C 17239352T	CFR 39K OHM +-5% 1/4W
R607	61C 20810964L	1W +-5% 1OHM
R426	61C153M39059L	3WS +-5% 39OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2243CR	0.22UF 400V
C426	63C210J2442CR	0.24UF 250V
L401	73C 147539 HA	LINEARITY COIL
TP404	95C201F 50162	16" PULSE
	750C5X478AV	17" LPD-CS EE ROHS CRT
	705A774BC5701B	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706510	FJAF6812TU
	90C6069502 1	HEAT SINK
D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
	750C5X478AV	17" LPD-CS EE ROHS CRT
R715	61C 17239352T	CFR 39K OHM +-5% 1/4W
R607	61C 20810964L	1W +-5% 1OHM
R426	61C153M39059L	3WS +-5% 39OHM
R428	61C153M75859L	3WS +-5% 0.75OHM
R606	61C175L12152T	CFR 120 OHM +-5% 1/2W
C425	63C210J2243CR	0.22UF 400V
C426	63C210J2442CR	0.24UF 250V
C450	65C 1K151 5T6921	150PF 1KV Y5P +-10%
C480	65C 1K470 5T6921	47P/1KV
L401	73C 147539 HA	LINEARITY COIL
TP404	95C201M 50142	14"PULSE
	705A774BC5701B	Q403/Q406/D408/IC601 AS
	5C 71 1	TRANSISTOR HOUSING
	32C3028504	MICA
IC601	56C 574501	E-STV9302A
Q406	57C 415 1	TR.NPN TIP122/FAIRCHILD
Q403	57C 706510	FJAF6812TU
	90C6069502 1	HEAT SINK

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D408	93C 220 17	FMQ-2FUR(LF 664)
	95C205T 30062	UL1015#18BLK.TOPCOAT
	M1C1030 8128 CR3	WCREW M3X8
	M1C1730 10128 CR3	SCREW M3x10
	M1C1730 12128 CR3	SCREW
F901	84C 33 10	FUSE CLIP
F901	84C 7H400 SL	FUSE 4A 250V LF-618 004
IC901	56C 379513	STR-G5643B
	90C 339508 PA	HEAT SINK
	M1C1730 10128 CR3	SCREW M3x10
Q420	57C 600 21	IRF630M/S.T
	90C6118 1	HEAT SINK
	M1C1730 6128 CR3	SCREW M3x6
Q426	57C 600 21	IRF630M/S.T
	90C6118 1	HEAT SINK
	M1C1730 6128 CR3	SCREW M3x6
	32C3028 8	MICA
Q911	57C 600 27	IRF634B
	90C6209 2	HEAT SINK
	M1C1730 10128 CR3	SCREW M3x10
	Q2C6009 1	SCREW NUT
	9C 203 9	PIN
NR901	61C 58150 WL	RST NTCR 15 OHM+-15% 2.